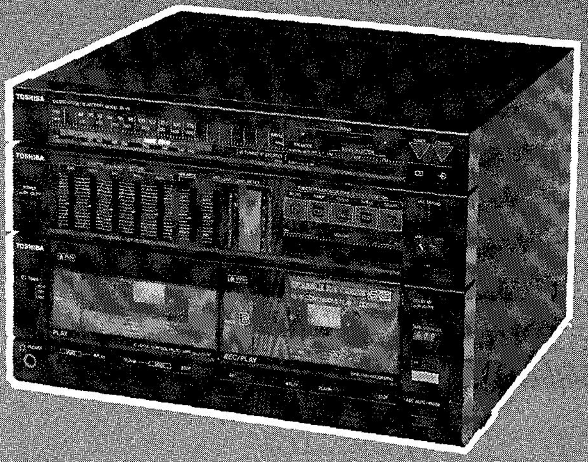
SERVICE DATA
FILE NO. 170-224

TOSHIBA
STEREO SOUND SYSTEM
SK-V11



SPECIFICATIONS

Cassette-Receiver Section

■ Amplifier

Rated output power:	20W per channel, 10% THD, at 8 ohms, 1 kHz
Total harmonic distortion:	0.2% at half rated output power, 1 kHz
Input terminals:	MIC (Mono, 6.3 mm diameter), AUX, PHONO
Output terminals:	Headphones, speakers
Graphic equalizer:	Center frequencies: 63 Hz, 250 Hz, 1 kHz, 4 kHz, 12 kHz Adjustment range: ±10 dB
Signal-to-noise ratio:	Phono: 72 dB Aux: 86 dB

■ Tuner

Frequency range:	FM: 88 – 108 MHz MW: 526.5 – 1606.5 kHz LW: 145 – 360 kHz SW: 3.8 – 12 MHz
Sensitivity:	FM: 5 µV, 19.2 dBf (75 ohms) MW: 500 µV/m (loop antenna) LW: 900 µV/m (loop antenna) SW: 30 µV
Signal-to-noise ratio:	FM mono: 68 dB FM stereo: 60 dB AM: 50 dB
Stereo separation:	30 dB (at 1 kHz)

■ Cassette Deck

Track system:	4-track, 2-channel stereo
Recording system:	AC bias (85 kHz)
Heads:	Deck A: PB: 1 Deck B: Rec/pb: 1 Erase: 1
Wow and flutter:	0.07% (WRMS)
Frequency response:	40 – 16,000 Hz (Metal tape)
Signal-to-noise ratio:	56 dB
Motors:	Capstan motor (electronically controlled DC type): 2 Reel motor (DC motor): 2

■ General

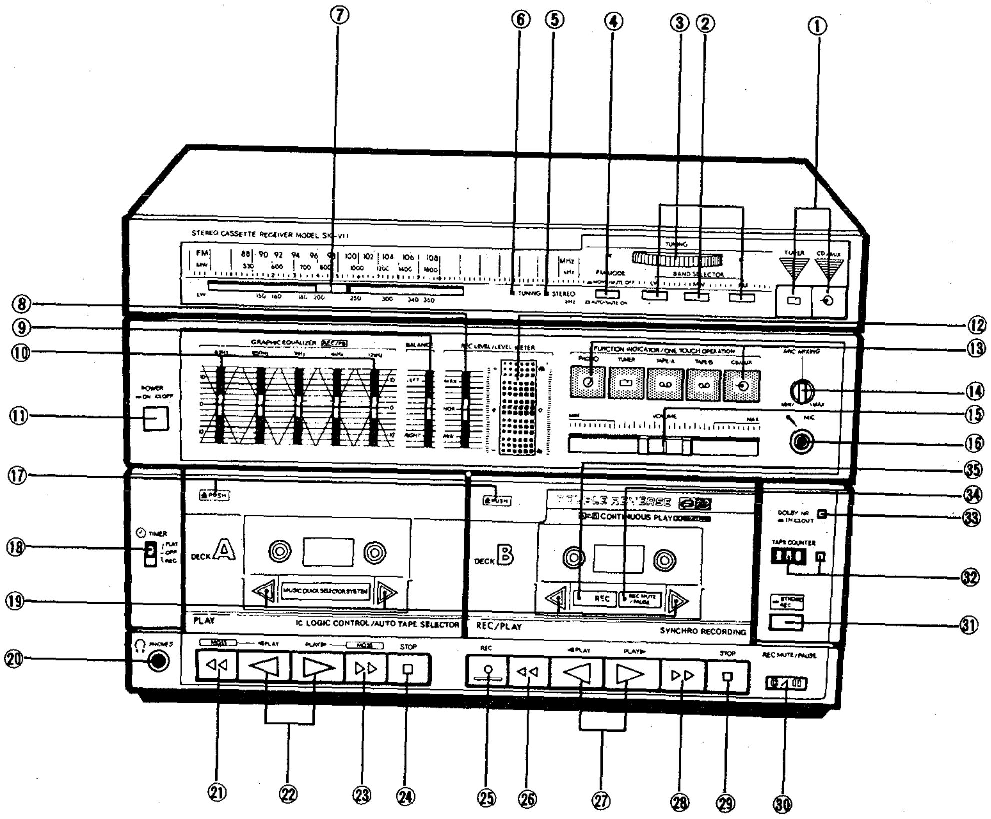
Power supply:	220V ∿, 50 Hz (TE, TD, ME) 240V ∿, 50 Hz (TU, AY) AC 110-127/220-240V, 50/60 Hz (VF)
Power consumption:	110 watts
Dimensions:	340(W) x 223.5(H) x 329(D) mm
Weight:	6.8 kg

Specifications are subject to change without notice.

TE, TU, TD, AY, ME, VF

PRINTED IN JAPAN 22905471 July, 1985 Ⓢ

1. OPERATING CONTROLS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STEREO CASSETTE RECEIVER MODEL SK-V11
FM
MW
LW
TUNING
STEREO
FM MODE
BAND SELECTOR
TUNER
CD/AUX
POWER
GRAPHIC EQUALIZER
BALANCE
LEFT
RIGHT
REC LEVEL/LEVEL METER
FUNCTION INDICATOR/ONE TOUCH OPERATION
PHONO
TUNER
TAPE A
TAPE B
CD/AUX
MIC MIXING
MIN
MAX
VOLUME
MIC
PUSH
DECK A
DECK B
TIMER
PLAY
OFF
REC
MUSIC QUICK SELECTOR SYSTEM
CONTINUOUS PLAY
REC
REC MUTE/PAUSE
DOLBY NR
TAPE COUNTER
SYNCHRO REC
PLAY
IC LOGIC CONTROL/AUTO TAPE SELECTOR
REC/PLAY
SYNCHRO RECORDING
PHONES
STOP
REC
STOP
REC MUTE/PAUSE

Figure 1

Tuner Section

① **Input Selector Buttons**

TUNER: Press to listen to a radio broadcast.
CD/AUX: Press to listen to an external audio source.

② **BAND SELECTOR Buttons**

Use to select MW, LW, SW or FM reception.

③ **TUNING Knob**

④ **FM MODE Button**

Set this button to the MONO/MUTE OFF (▭) position to obtain better sound quality with noisy FM stereo broadcasts. Note that muting is switched off in this position.

⑤ **STEREO Indicator**

Lights when an FM stereo broadcast is being received.

⑥ **TUNING Indicator**

Lights when the optimum tuning point of a radio broadcast has been reached.

⑦ **Tuning Pointer**

Amp Section

⑧ **REC LEVEL Control**

This control should normally be left in the center click-stop position (NOR). Adjust as necessary only when recording a source having an extremely high or low signal level.

⑨ **BALANCE Control**

This adjusts the relative volume levels of the left and right speaker systems.

⑩ **GRAPHIC EQUALIZER Level Controls**

These level controls adjust response in the five frequency bands centered at the frequency shown above each control. Adjust these controls to produce the desired sonic effect. The positions of the level controls also affect the signal being recorded. Therefore, be sure the controls are adjusted as desired before starting a recording. If no alteration of sound quality is required, set all five controls to the center "0" position.

⑪ **POWER Switch**

⑫ **LEVEL METER**

Shows the input level during recording the output level at all other times. Use the REC LEVEL control to adjust the input level for recording.

⑬ **FUNCTION INDICATOR**

Lights to show which function has been selected. (During cassette deck operation, the TAPE-A or TAPE-B indicator lights only for playback.)

⑭ **MIC MIXING Control**

This adjusts the volume of the input from the microphone.

⑮ **VOLUME Control**

⑯ **MIC Jack**

A microphone can be connected to this jack. Turn the volume control down before inserting and removing the microphone plug.

Cassette Deck Section

⑰ **▲ PUSH**

Press here to open the cassette door. Press again to close the cassette door.

⑱ **TIMER Standby Switch**

Use this switch to perform timer recording or playback in conjunction with an optional audio timer. This switch should be left in the OFF position at all other times.

⑲ **Tape Travel Direction Indicators**

⑳ **PHONES Jack**

A set of stereo headphones having a 6.3mm plug can be connected to this jack.

㉑ ㉖ **◀◀ Fast Foward Buttons**

Press to wind the tape rapidly to the left and to use the MQSS function of DECK A (see page 9).

㉒ ㉗ **▶ ◀ PLAY Buttons**

㉓ ㉘ **▶▶ Fast Forward Buttons**

Press to wind the tape rapidly to the right and to use the MQSS function of DECK A (see page 9).

㉔ ㉙ **■ STOP Buttons**

Press to stop tape transport.

㉕ **● REC Button**

Press the ▶ PLAY or ◀ PLAY button while holding this button down to start recording on DECK B. (REC indicator lights).

㉚ **O/II REC MUTE/PAUSE Button**

When this button is pressed while a recording is being made, the unit switches to the record/pause mode (REC MUTE/PAUSE indicator lights).
When this button is held down while a recording is being made, a blank section will be inserted for as long as the button is held down (REC MUTE/PAUSE indicator flashes on and off). As before, the unit switches to the record/pause mode when this button is released.
Press this button once again to resume recording.

㉛ **SYNCHRO REC Button**

Press this button to perform synchronized recording. When this button is pressed, the SYNCHRO REC, REC and REC MUTE/PAUSE indicators light and the unit switches to the synchronized recording/pause mode.

㉜ **TAPE COUNTER and Reset Button**

Use this counter to determine the present location on cassettes in DECK B.

㉝ **DOLBY NR* Button**

Depress to the IN (▭) position to make a recording using Dolby Noise Reduction or play back a Dolby NR encoded tape. This button switches Dolby NR on and off in both DECK A and B. It does not operate during dubbing (see page 11 and 12).

* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

㉞ **REC MUTE/PAUSE Indicator**

Lights when the pause mode is activated and flashes on and off while the recording mute function is being used.

㉟ **REC Indicator**

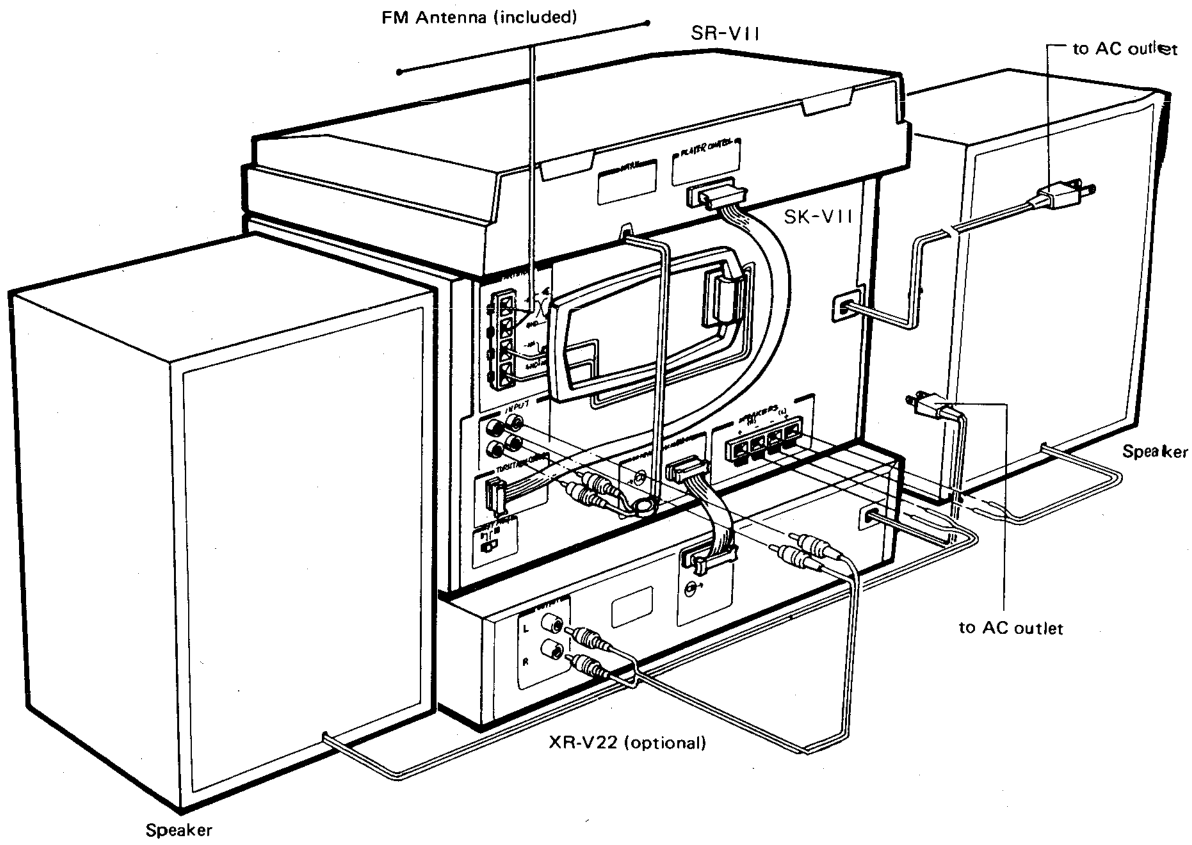


Figure 2

Connecting the turntable

- Connect the turntable (SR-V11) to the PHONO input jacks being sure left (white) and right (red) are correctly connected.
- Connect the turntable control jack of the cassette receiver unit to the control jack of the turntable using the included cable.

CD/AUX connections

- Use the CD/AUX jacks to connect a compact disc player, second tuner or other audio component.
- When the XR-V22 compact disc player (optional) is used, connect the CD player control jack of the cassette receiver to the control jack of the XR-V22 using the special control cable.

Connecting the speakers

- Use only speaker systems having an impedance of 8 to 16 ohms with this unit.
- Remove the speaker cable coating to expose a section of wire about 6 to 10mm long. Then twist the strands of wire together. Connect the positive (+) speaker cable to the red speaker jack and the negative (–) speaker cable to the black speaker jack.

Connecting the indoor FM aerial

Connect the indoor FM aerial included with this unit to the FM antenna terminals on the rear panel of the unit.

Connecting an outdoor FM aerial

If the stereo indicator does not light or flashes on and off while a stereo FM broadcast is being received or if sound quality is poor, you should use an outdoor FM aerial instead of the indoor aerial.

Connecting the AM loop aerial

- An AM loop antenna is attached to the rear panel of this unit. Connect the wires from this antenna to the AM aerial terminals and then set the aerial to the angle in which reception is best.
- If reception is still not satisfactory, remove the loop aerial from the rear panel and place it in the location in which reception is best.

Locating the unit

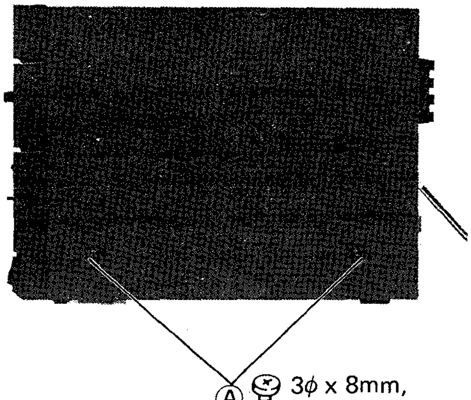
In order to obtain optimum performance from this unit, be sure to observe the following precautions when selecting its location.

- Place the unit on a flat surface that is not subject to vibrations.
- Avoid direct sunlight and other locations that are directly exposed to heating appliances and other sources of heat.
- Avoid dusty locations.
- Avoid high humidity and locations where ventilation is poor.
- Do not expose the unit to very low temperatures.
- Do not place the unit near the speaker systems since howling may result.

2. DISASSEMBLY INSTRUCTIONS

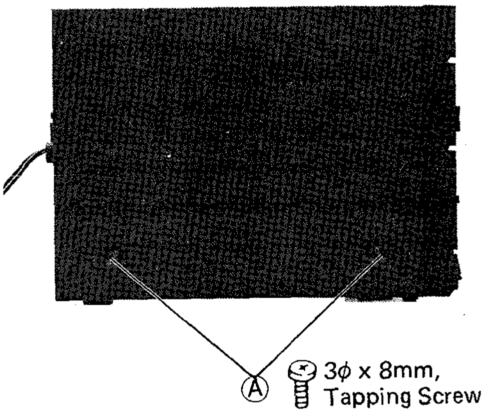
TOP COVER REMOVAL

1. Remove four screws Ⓐ and three screws Ⓑ from side boards, and the top cover will be removed.



Ⓐ 3ϕ x 8mm, Tapping Screw

Figure 3



Ⓐ 3ϕ x 8mm, Tapping Screw

Figure 4

Ⓑ 3ϕ x 8mm, Tapping Screw

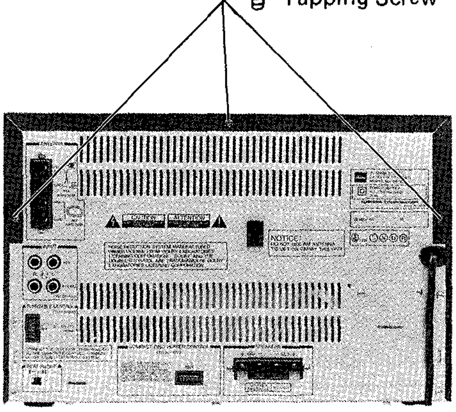
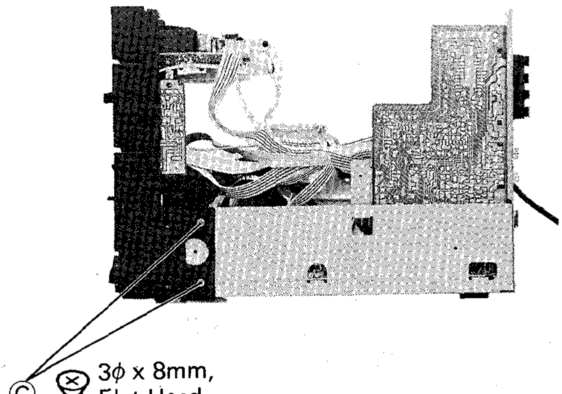


Figure 5

FRONT PANEL ASSEMBLY (with Mechanism Assembly and P.C. Board) REMOVAL

1. Remove four screws Ⓒ from side boards, and the front panel assembly will be removed.



Ⓒ 3ϕ x 8mm, Flat Head Tapping Screw

Figure 6

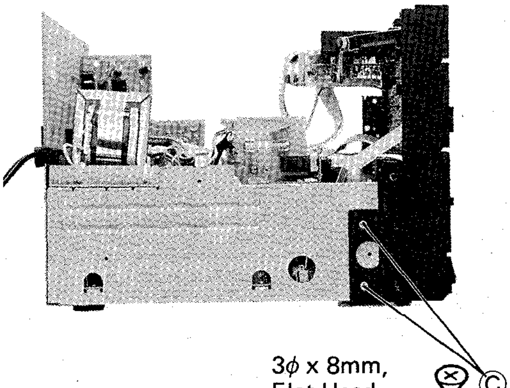


Figure 7

3ϕ x 8mm, Flat Head Tapping Screw Ⓒ

MECHANISM ASSEMBLY REMOVAL

1. Push cassette cover eject button to open cassette holder.
2. Remove two screws Ⓓ a (for mechanism to be removed) from bottom side.
3. Remove two screws Ⓔ a (for mechanism to be removed) from Mechanism Assembly, and the Mechanism Assembly will be removed.

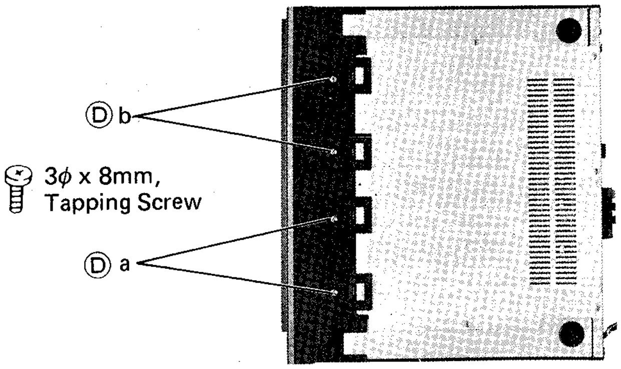


Figure 8

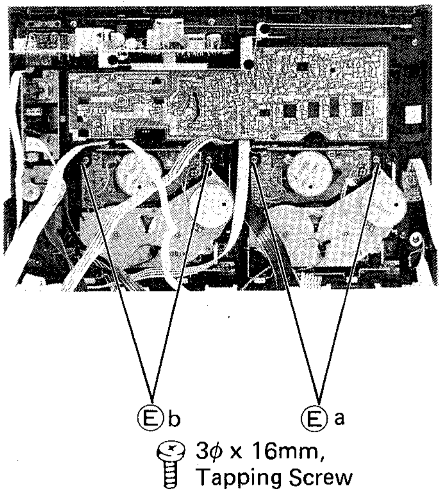


Figure 9

BOTTOM PLATE REMOVAL

1. Remove five screws Ⓕ from bottom board, and the bottom board will be removed.

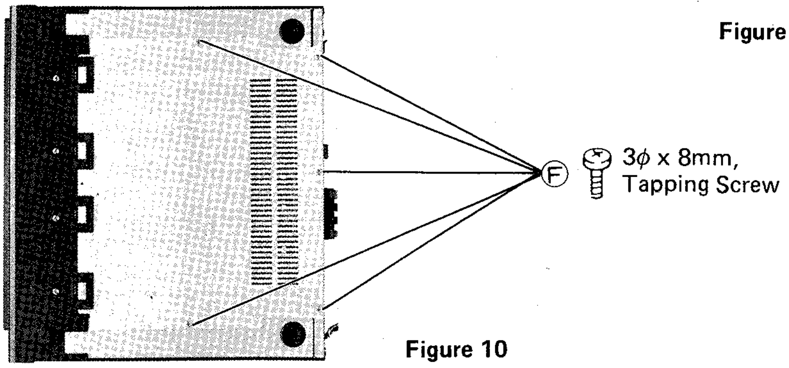


Figure 10

HEAD AZIMUTH ADJUSTMENT PROCEUDRE

1. Push cassette cover eject button to open cassette holder.
2. Push PLAY knob's claw to inside as indicated by arrow Ⓖ and forward, and the claw will be removed as illustrated below.

* To remount the knob, hold it horizontally and insert it from underside.

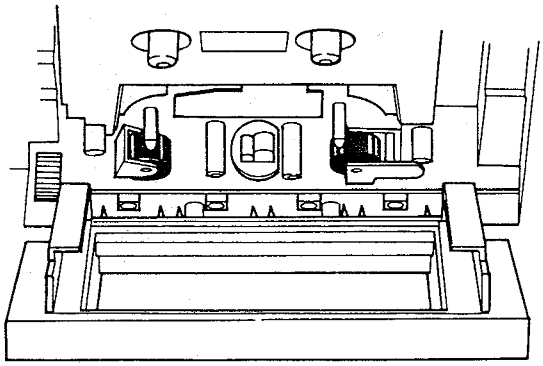


Figure 11

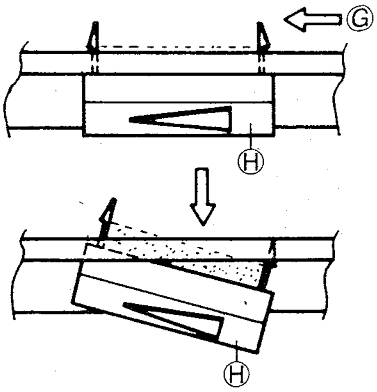


Figure 12

EQUALIZER P.C. BOARD MOUNTING PROCEDURE

1. Set equalizer, balance, and record level knobs on front panel to lowest position.
2. Set all slide volumes on equalizer P.C. Board to lowest position and mount the P.C. Board on front panel.
3. Check the slide volumes move together with the knobs.

TUNER FRAME REMOVAL

1. Remove three screws ① from Tuner Frame, and the Frame will be removed.

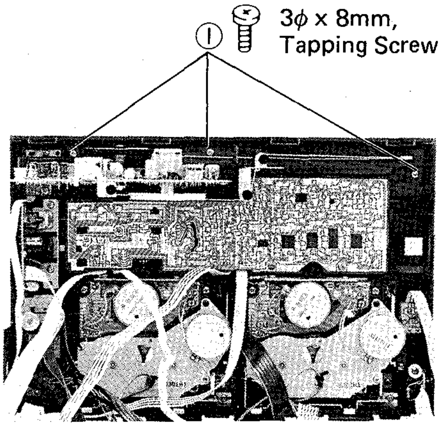

①
3φ x 8mm,
Tapping Screw

Figure 13

3. BLOCK DIAGRAM

TUNER SECTION (TE, TU, AY, ME Model)

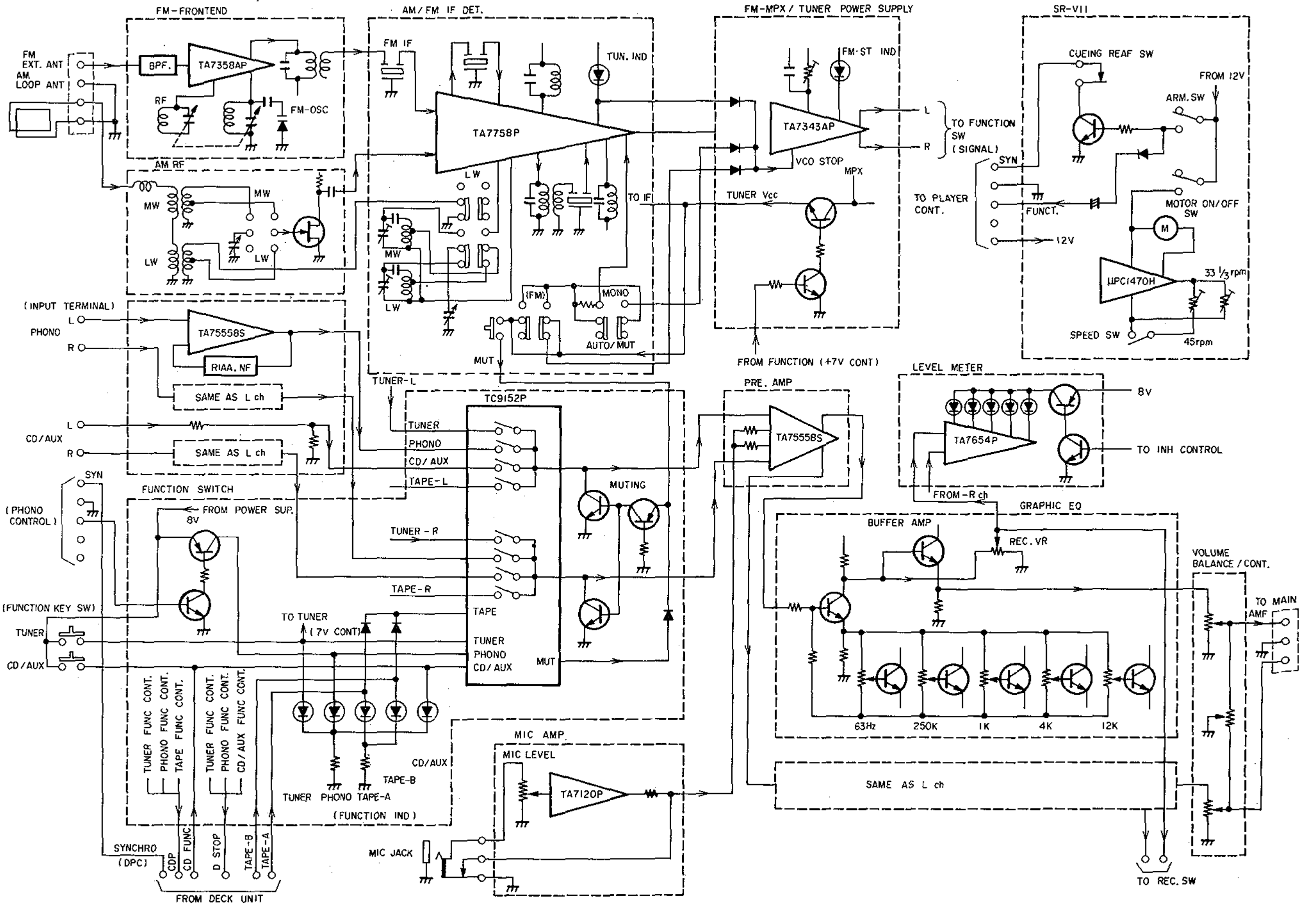

FM-FRONTEND
AM/FM IF DET.
FM-MPX / TUNER POWER SUPPLY
SR-V11
FM EXT. ANT
AM LOOP ANT
BPF.
TA7358AP
RF
FM-OSC
AM RF
MW
LW
FM IF
TUN. IND
TA7758P
TO IF
(FM)
MONO
AUTO/MUT
MUT
TUNER-L
FM-ST IND
TA7343AP
VCO STOP
MPX
TO FUNCTION SW (SIGNAL)
L
R
TUNER Vcc
FROM FUNCTION (+7V CONT)
TO PLAYER CONT.
SYN
FUNCT.
12V
CUEING REAF SW
FROM 12V
ARM.SW
MOTOR ON/OFF SW
M
UPC1470H
33 1/3rpm
SPEED SW
45rpm
(INPUT TERMINAL)
PHONO
TA75558S
RIAA. NF
SAME AS L ch
CD/AUX
FUNCTION SWITCH
FROM POWER SUP.
8V
(PHONO CONTROL)
(FUNCTION KEY SW)
TUNER
CD/AUX
TC9152P
TUNER
PHONO
CD/AUX
TAPE-L
TUNER-R
TAPE-R
TAPE
MUT
MUTING
TO TUNER (7V CONT)
TUNER FUNC CONT.
PHONO FUNC CONT.
TAPE FUNC CONT.
CD/AUX FUNC CONT.
TAPE-B
TUNER PHONO TAPE-A
(FUNCTION IND)
SYNCHRO (DPC)
ODP
CD FUNC
D STOP
TAPE-B
TAPE-A
FROM DECK UNIT
PRE. AMP
LEVEL METER
TA7654P
8V
TO INH CONTROL
FROM-R ch
GRAPHIC EQ
BUFFER AMP
REC. VR
63Hz
250K
1K
4K
12K
VOLUME BALANCE / CONT.
TO MAIN AMP
SAME AS L ch
TO REC. SW
MIC AMP
MIC LEVEL
TA7120P
MIC JACK

Figure 14

TUNER SECTION (VF Model)

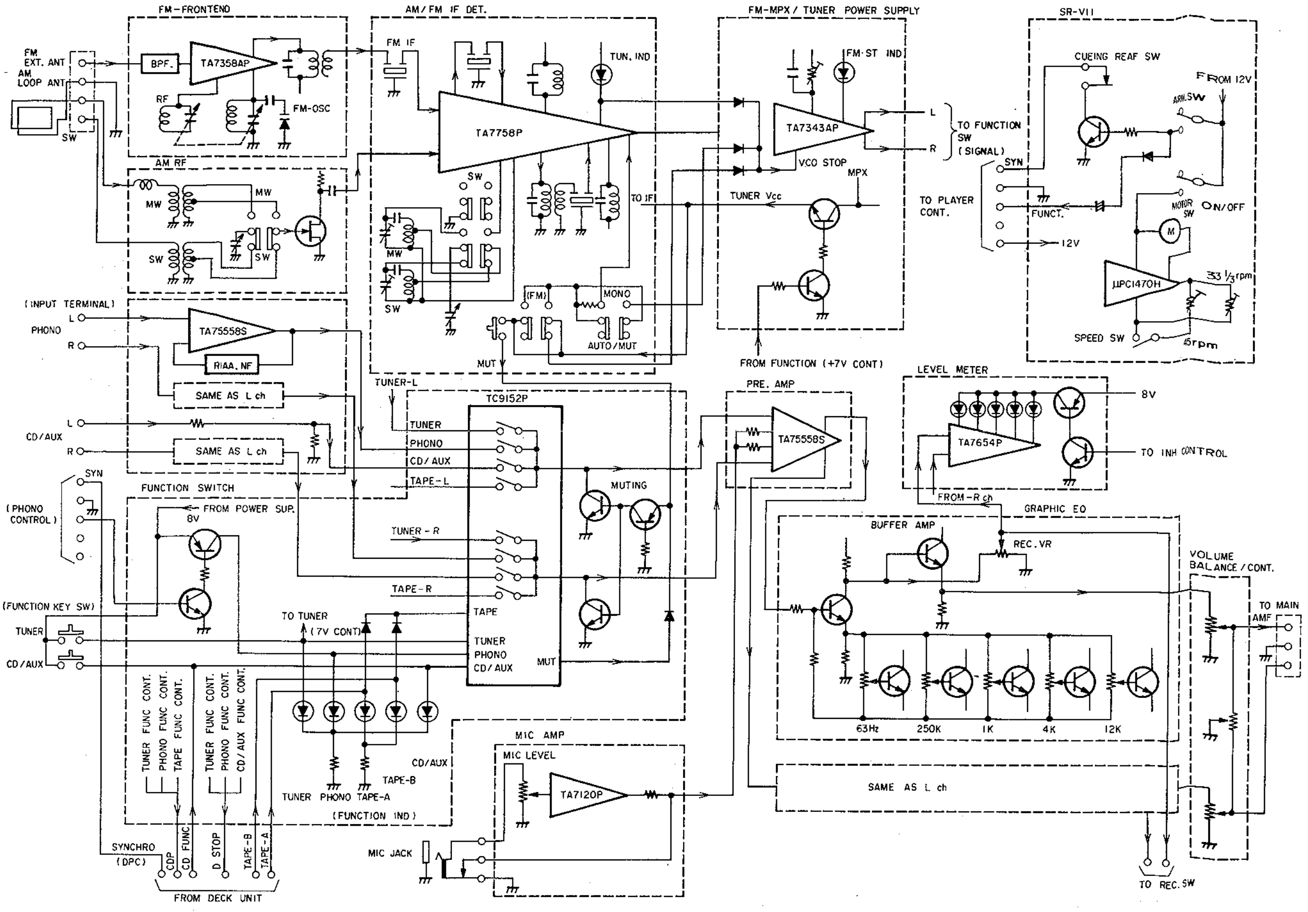

FM-FRONTEND
AM/FM IF DET.
FM-MPX / TUNER POWER SUPPLY
SR-V11
FM EXT. ANT
AM LOOP ANT
SW
BPF
TA7358AP
RF
FM-OSC
AM RF
MW
SW
FM IF
TUN. IND
TA7758P
TO IF
(FM)
MONO
AUTO/MUT
MUT
FM·ST IND
TA7343AP
VCO STOP
MPX
TUNER Vcc
L
R
TO FUNCTION SW (SIGNAL)
TO PLAYER CONT.
SYN
FUNCT.
12V
CUEING REAF SW
FROM 12V
ARM.SW
MOTOR SW
ON/OFF
μPC1470H
33 1/3 rpm
45 rpm
SPEED SW
FROM FUNCTION (+7V CONT)
LEVEL METER
8V
TA7654P
TO INH CONTROL
FROM-R ch
(INPUT TERMINAL)
PHONO
TA75558S
RIAA. NF
SAME AS L ch
CD/AUX
TUNER-L
TC9152P
TUNER
PHONO
CD/AUX
TAPE-L
TUNER-R
TAPE-R
TAPE
MUTING
MUT
PRE. AMP
TA75558S
GRAPHIC EQ
BUFFER AMP
REC. VR
63Hz
250K
1K
4K
12K
VOLUME BALANCE/CONT.
TO MAIN AMP
SAME AS L ch
TO REC. SW
FUNCTION SWITCH
FROM POWER SUP.
8V
(PHONO CONTROL)
(FUNCTION KEY SW)
TO TUNER
(7V CONT)
TUNER FUNC CONT.
PHONO FUNC CONT.
TAPE FUNC CONT.
TUNER FUNC CONT.
PHONO FUNC CONT.
CD/AUX FUNC CONT.
CD/AUX
TAPE-B
TUNER PHONO TAPE-A
(FUNCTION IND)
SYNCHRO (DPC)
CDP
CD FUNC
D STOP
TAPE-B
TAPE-A
FROM DECK UNIT
MIC AMP
MIC LEVEL
TA7120P
MIC JACK

Figure 15

DECK/AMP SECTION

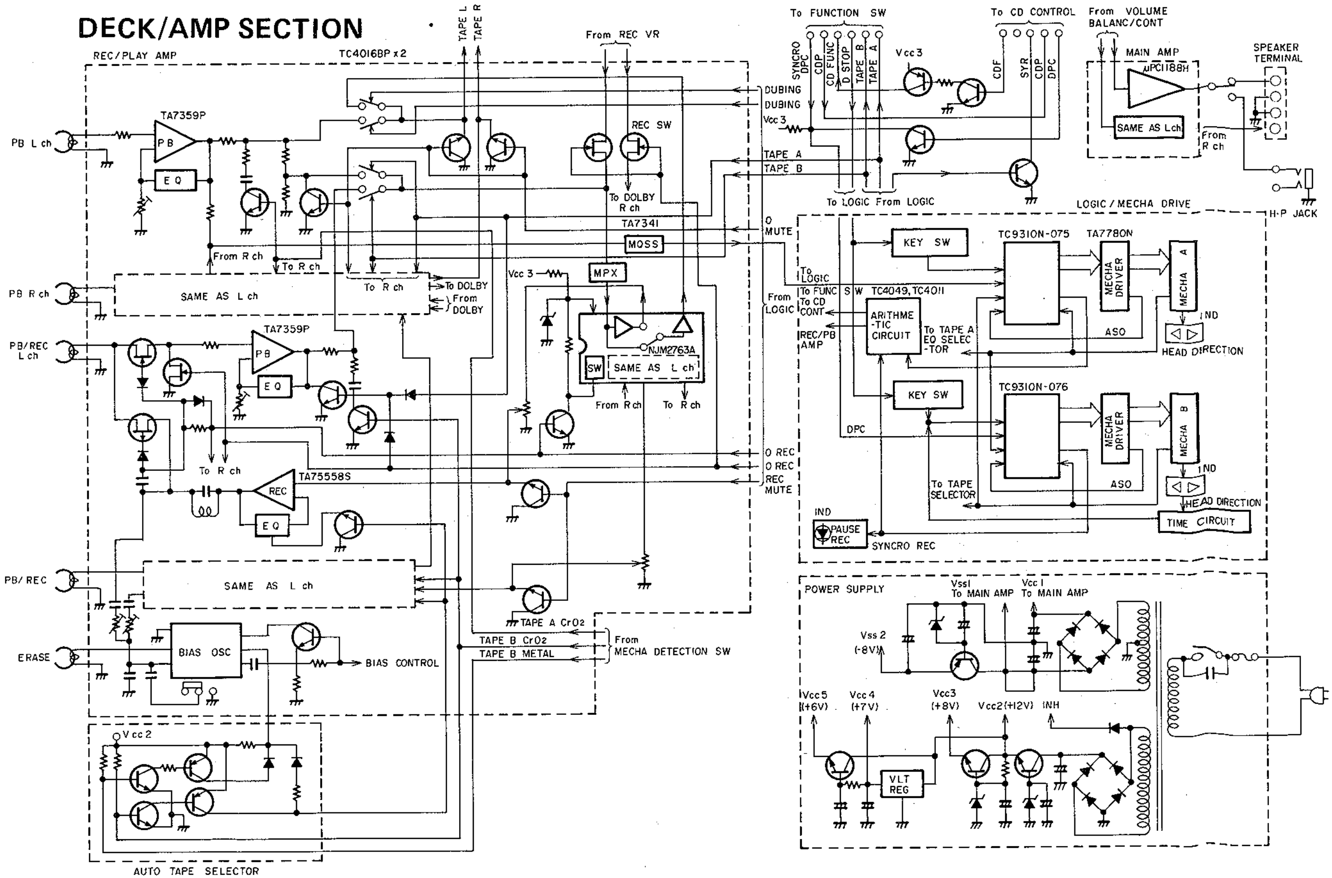

TAPE L
TAPE R
REC/PLAY AMP
TC4016BP x2
From REC VR
REC SW
To DOLBY R ch
TA7341
MOSS
PB L ch
TA7359P
PB
EQ
From R ch
To R ch
PB R ch
SAME AS L ch
To R ch
To DOLBY
From DOLBY
Vcc 3
MPX
NJM2763A
SW
SAME AS L ch
From R ch
To R ch
PB/REC L ch
TA7359P
PB
EQ
To R ch
TA75558S
REC
EQ
PB/REC
SAME AS L ch
ERASE
BIAS OSC
BIAS CONTROL
TAPE A CrO2
TAPE B CrO2
TAPE B METAL
From MECHA DETECTION SW
Vcc 2
AUTO TAPE SELECTOR
DUBING
DUBING
Vcc 3
TAPE A
TAPE B
0 MUTE
0 REC
0 REC
REC MUTE
To FUNCTION SW
SYNCRO DPC
CDP
CD FUNC
D STOP
TAPE B
TAPE A
Vcc3
To CD CONTROL
CDF
SYR
CDP
DPC
To LOGIC From LOGIC
From VOLUME BALANC/CONT
MAIN AMP
μPC1188H
SAME AS Lch
From R ch
SPEAKER TERMINAL
H·P JACK
LOGIC / MECHA DRIVE
KEY SW
TC9310N-075
TA7780N
MECHA DRIVER
MECHA A
IND
ASO
HEAD DIRECTION
To LOGIC
From LOGIC
To FUNC SW
To CD CONT
REC/PB AMP
TC4049, TC4011
ARITHMETIC CIRCUIT
To TAPE A EQ SELECTOR
KEY SW
TC9310N-076
MECHA DRIVER
MECHA B
IND
ASO
HEAD DIRECTION
DPC
To TAPE SELECTOR
TIME CIRCUIT
IND
PAUSE REC
SYNCRO REC
POWER SUPPLY
Vss1 To MAIN AMP
Vcc1 To MAIN AMP
Vss 2 (-8V)
Vcc5 (+6V)
Vcc4 (+7V)
Vcc3 (+8V)
Vcc2 (+12V)
INH
VLT REG

Figure 16

4. DIAL CORD RESTRINGING

1. Remove the tuner frame.
2. Turn the dial drum counterclockwise fully.
3. Proceed stringing in steps ① to ⑨.

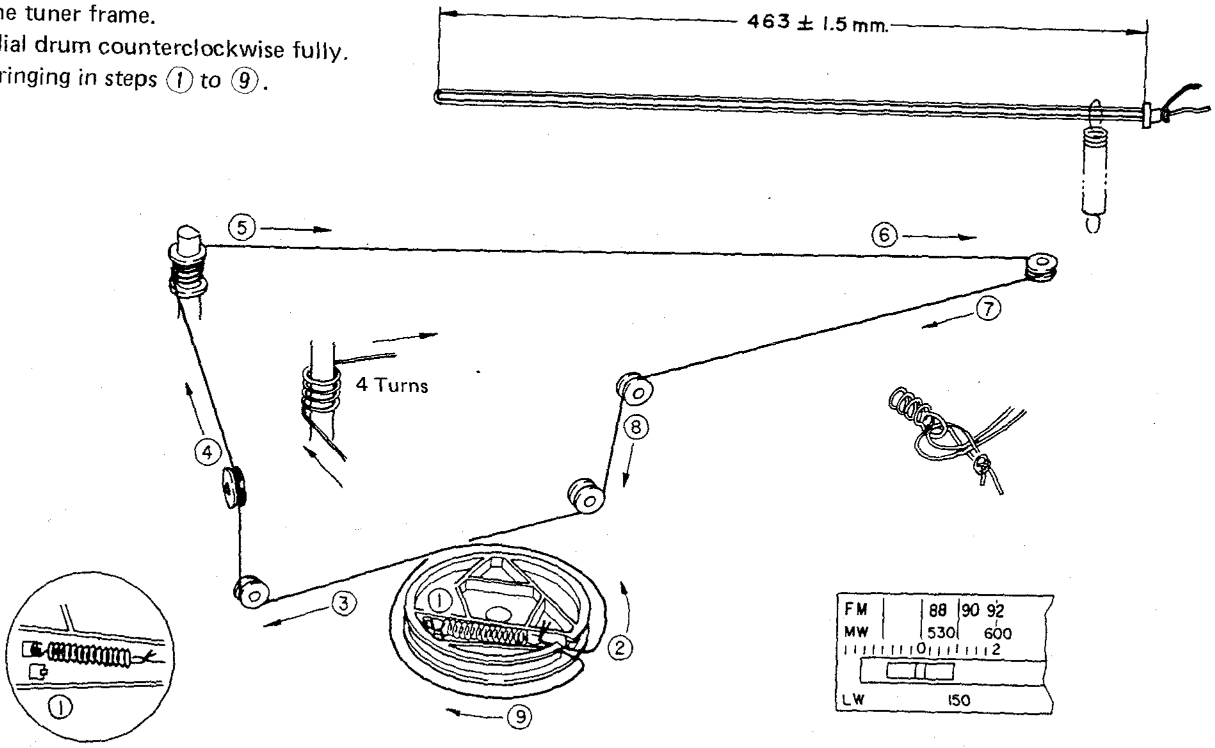

463 ± 1.5 mm.
⑤
⑥
⑦
4 Turns
④
⑧
③
①
②
⑨
FM 88 90 92
MW 530 600
0 2
LW 150

Figure 17

RUNNING CHANGE (SERIAL NO. 57 ~)

1. Remove the tuner frame.
2. Turn the dial drum counterclockwise fully.
3. Proceed stringing in steps ① to ⑩ .

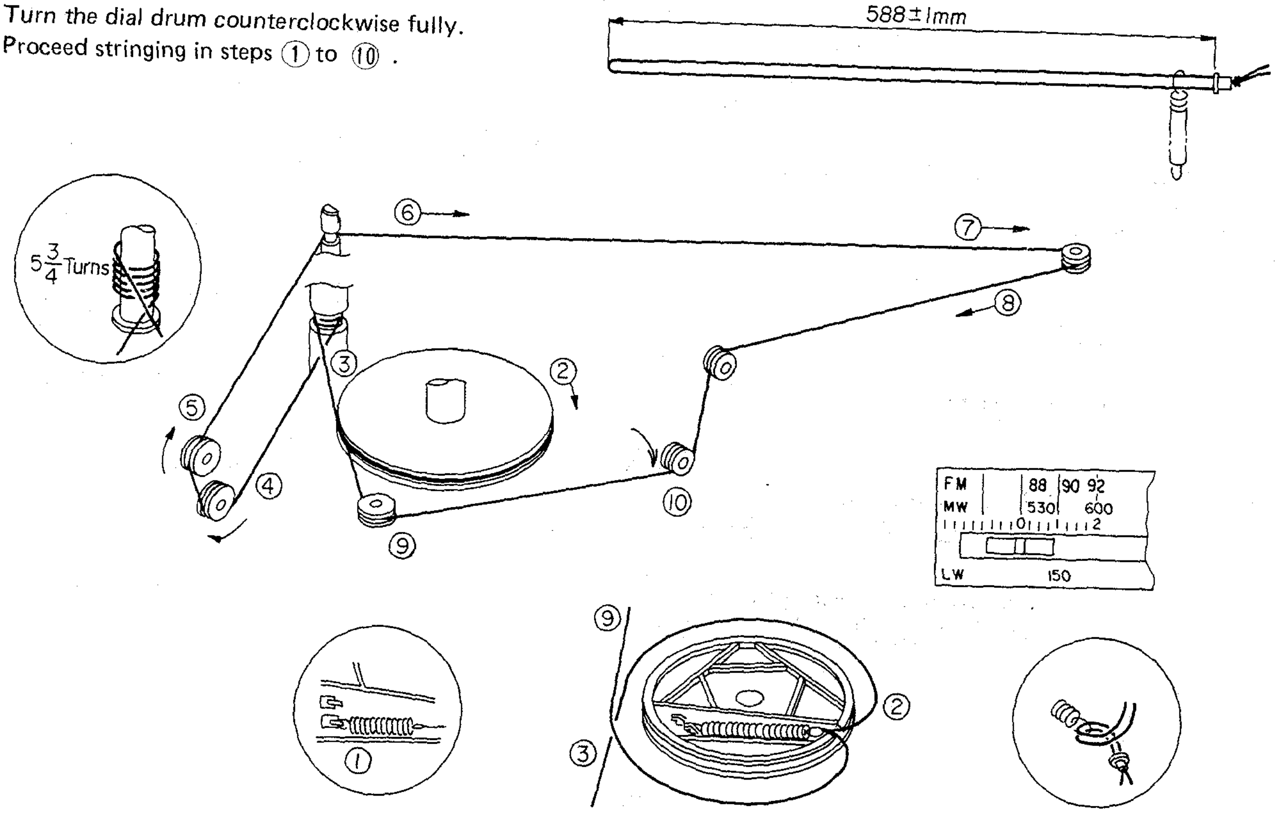

588±1mm
5¾ Turns
⑥
⑦
⑧
③
②
⑤
④
⑩
⑨
FM 88 90 92
MW 530 600
0 2
LW 150
①
⑨
③
②

Figure 18

5. ADJUSTMENTS

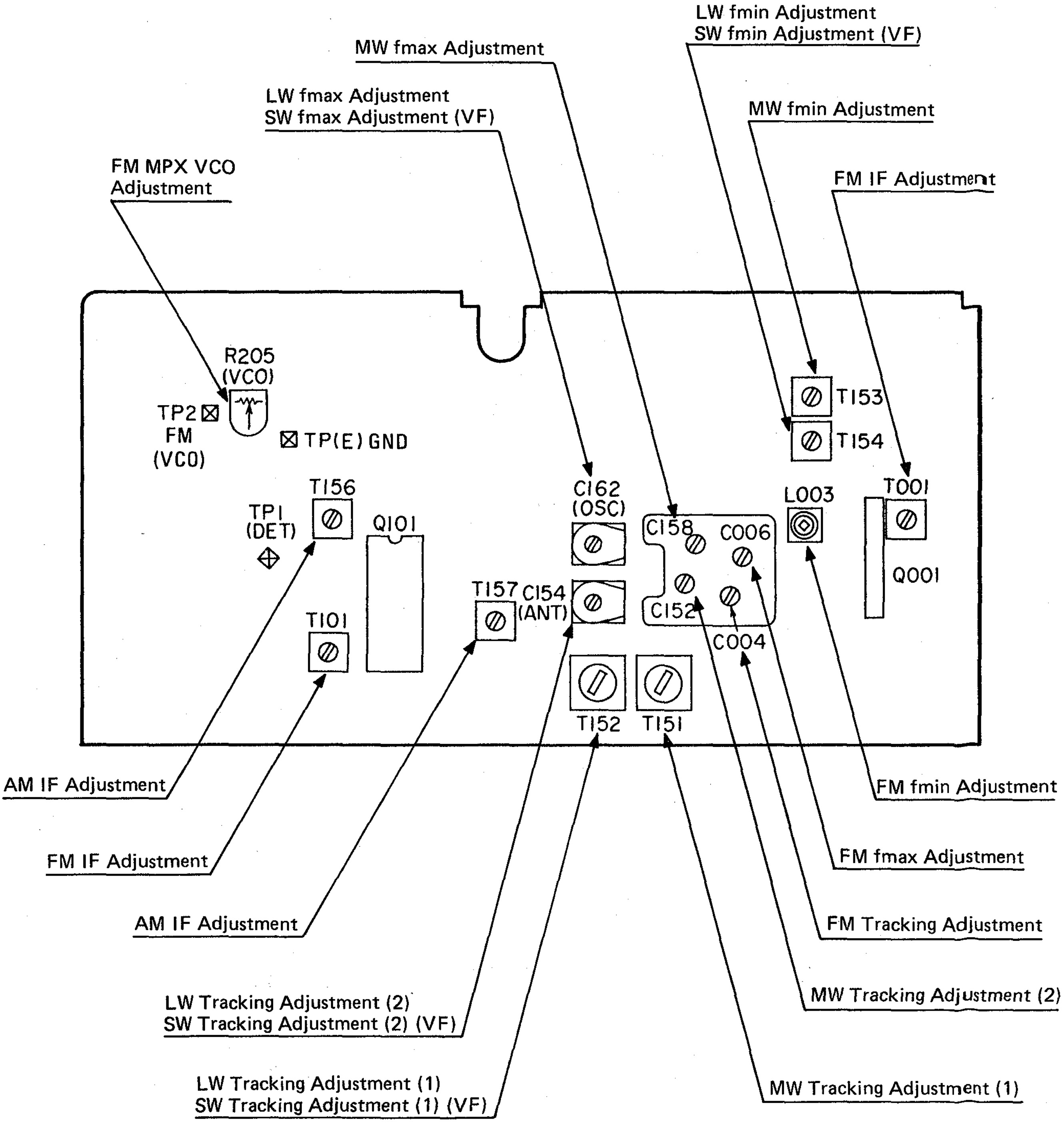
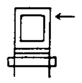

MW fmax Adjustment
LW fmin Adjustment
SW fmin Adjustment (VF)
LW fmax Adjustment
SW fmax Adjustment (VF)
MW fmin Adjustment
FM MPX VCO Adjustment
FM IF Adjustment
R205 (VCO)
TP2 FM (VCO)
TP(E) GND
T153
T154
T156
TP1 (DET)
Q101
C162 (OSC)
L003
T001
C158
C006
Q001
T157
C154 (ANT)
C152
C004
T101
T152
T151
AM IF Adjustment
FM fmin Adjustment
FM IF Adjustment
FM fmax Adjustment
AM IF Adjustment
FM Tracking Adjustment
LW Tracking Adjustment (2)
SW Tracking Adjustment (2) (VF)
MW Tracking Adjustment (2)
LW Tracking Adjustment (1)
SW Tracking Adjustment (1) (VF)
MW Tracking Adjustment (1)

Figure 19

FREQUENCY COVER & TRACKING ADJUSTMENT

Band	Step	Item	Test Input Condition	Test Output Condition	Frequency Setting	Adjustment Point	Adjustment Reference
FM	1	fmin Adjustment	Connect SG to FM ANT terminal *1 kHz 30% MOD (MONO) Output 5 ∿ 20 dB/μV	Connect oscilloscope and Milivoltmeter to speaker output. *Load resistance 8 ohm (More than 30W)	–	L003	 ← Position core top below this line.
	2	fmax Adjustment			108.4 MHz ±0.2 MHz	C006	Adjust for speaker output max. (best waveform)
	3	fmin Check			87.5 MHz	–	Check that signal can be received at 87.5 ±0.15 MHz.
	4	Tracking Adjustment			108 MHz	C004	Adjust for speaker output max.
MW	1	fmin Adjustment	SG output through loop antenna *400 Hz 30% MOD 80 ∿ 85 dB/m		515 ±15 kHz	T153	Adjust for speaker output max. (best waveform)
	2	fmax Adjustment			1650 ±10 kHz	C158	
	3	Tracking Adjustment (1)			600 kHz	T151	Adjust for speaker output max. (best waveform)
	4	Tracking Adjustment (2)			1400 kHz	C152	
LW	1	fmin Adjustment	SG output through loop antenna *400 Hz 30% MOD 80 ∿ 85 dB/m		140 ±4 kHz	T154	Adjust for speaker output max. (best waveform)
	2	fmax Adjustment			365 ±5 kHz	C162	
	3	Tracking Adjustment (1)			160 kHz	T152	Adjust for speaker output max. (best waveform)
	4	Tracking Adjustment (2)			340 kHz	C154	
SW	1	fmin Adjustment	SG output through loop antenna *400 Hz 30% MOD 80 ∿ 85 dB/m		3.75 ±0.1 MHz	T154	Adjust for speaker output max. (best waveform)
	2	fmax Adjustment			12.5 ±0.2 MHz	C162	
	3	Tracking Adjustment (1)			5 MHz	T152	Adjust for speaker output max. (best waveform)
	4	Tracking Adjustment (2)			11 MHz	C154	

IF ADJUSTMENT

Band	Input	Test Output Condition	Frequency Setting	Adjustment Point	Adjustment Reference
FM	Connect FM IF sweep output to ANT terminal (Weak Signal)	Connect DET test point to IF sweep input terminal.	fmin	T001 T101	Adjust for straight and symmetrical S curve with max. amplitude.
AM	Connect AM IF sweep output to ANT terminal. (Weak Signal)			T156 T157	Adjust for max. amplitude with symmetrical response at 460 kHz.

MULTI-PLEX CIRCUIT ADJUSTMENT (FM STEREO)

Band	Step	Item	Test Input Condition	Test Output Condition	Frequency Setting	Adjustment Point	Adjustment Reference
FM	1	MPX VCO Adjustment	Connect SG to FM ANT terminal. *Apply 60 dB/μV with no modulation. Set Auto/mut on mode switch S105 to stereo.	Connect frequency counter across 1.8K ohm resistor connected test points FM-VCO and GND.	98 MHz or no signal position.	R205	Adjust for 38 kHz ±0.1 kHz

CAUTION:
When realigning the FM Receiving Frequency, the highest end of the frequency range should not be more than 108 MHz and the lowest end of the frequency range should not be less than 87.5 MHz, in order to comply with FTZ regulations in West Germany.

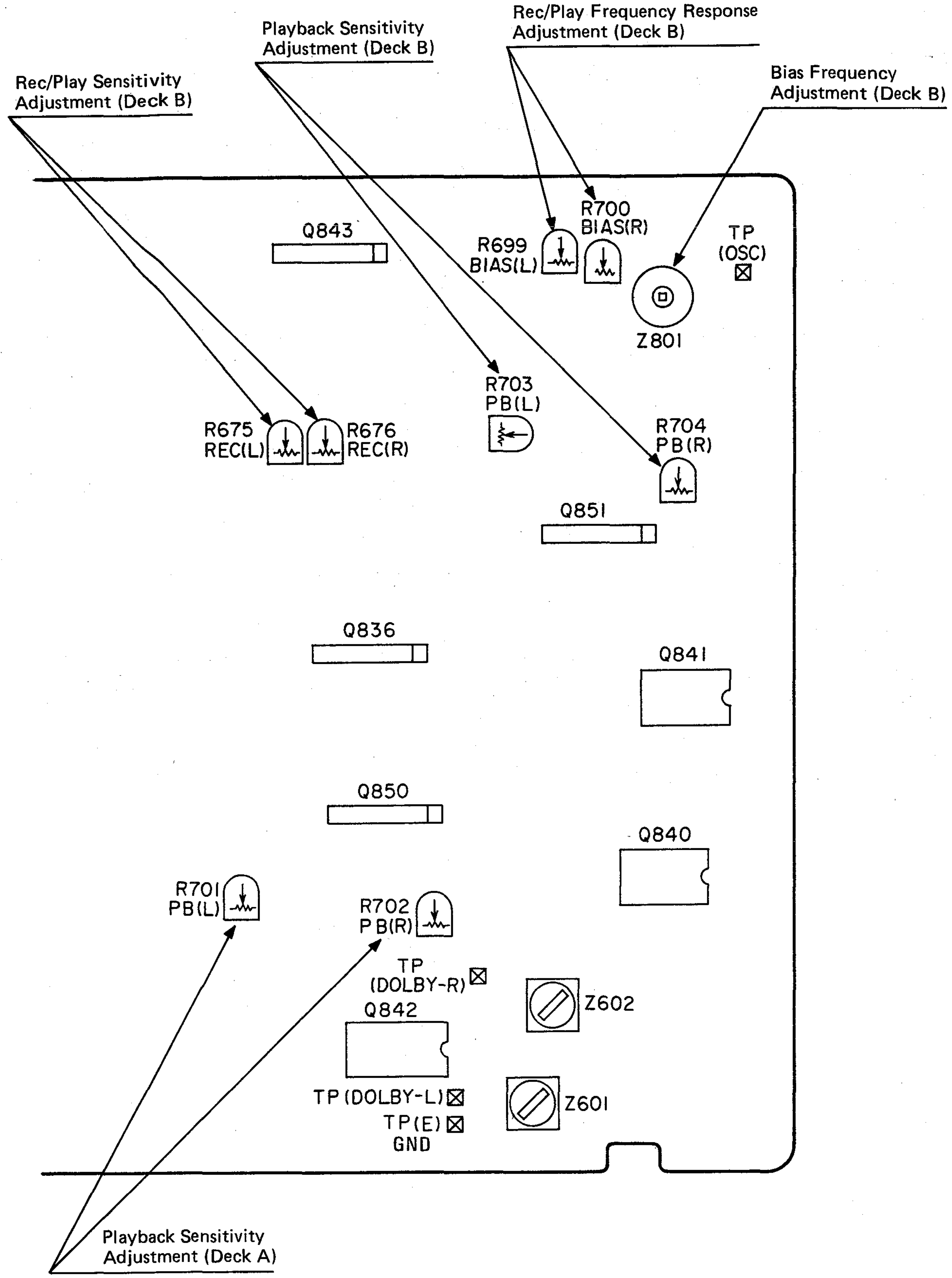

Rec/Play Sensitivity Adjustment (Deck B)
Playback Sensitivity Adjustment (Deck B)
Rec/Play Frequency Response Adjustment (Deck B)
Bias Frequency Adjustment (Deck B)
Q843
R699 BIAS(L)
R700 BIAS(R)
TP (OSC) ☒
Z801
R703 PB(L)
R704 PB(R)
R675 REC(L)
R676 REC(R)
Q851
Q836
Q841
Q850
Q840
R701 PB(L)
R702 PB(R)
TP (DOLBY-R) ☒
Q842
Z602
TP (DOLBY-L) ☒
TP(E) ☒ GND
Z601
Playback Sensitivity Adjustment (Deck A)

Figure 20

TEST EQUIPMENTS

1. AC VOLTMETER
2. Signal Generator
3. Oscilloscope
4. Screwdriver
5. Test Tapes:
   ATT-111 (Speed 3 KHz – 5 dB)
   ATT-114 (Azimuth 10 KHz)
   ATT-150 (Dolby 400 Hz Modulation)
   AC-512 (Chrome Tape)
6. Frequency Counter

(Tape Speed Adjustment)

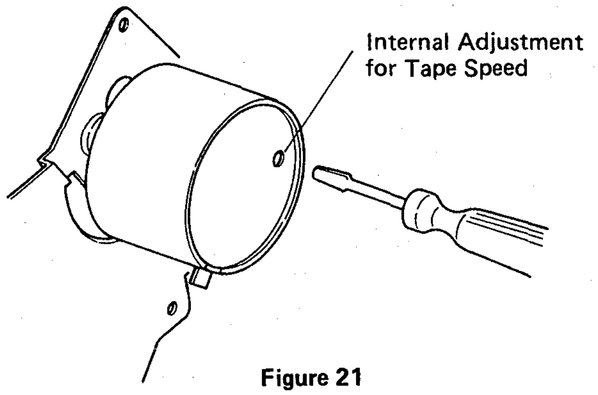

Internal Adjustment for Tape Speed

Figure 21

(Tape Head Height Adjustment)

1. Coarse Alignment of Tape Guides

Temporarily adjust both left and right tape guide height adjusting nuts so that they are positioned flush with the top of the shafts as shown in the upper figure (A).

2. Azimuth Alignment

Refer to No. 1 (2) of alignment method on next page.

3. Tape Running Alignment

Inspect status of tape travels in both forward and reverse directions using the mirror cassette and make sure no tape curling is occurred at the head guides in both directions of the tape travel.

4. Realignment

If tape curling is observed, readjust both tape guide adjusting nuts precisely until the curling is disappeared, by repeating the adjustment 2 ∿ 3 times.

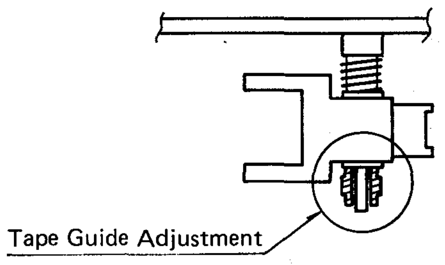

Tape Guide Adjustment

Figure 22

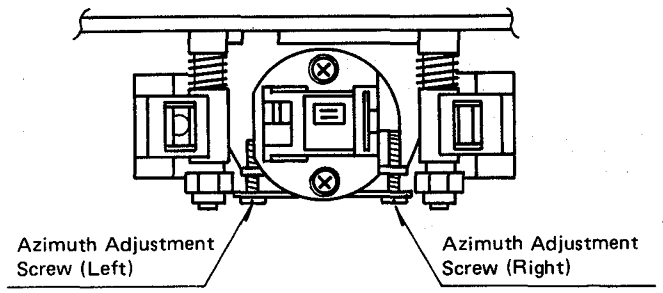

Azimuth Adjustment Screw (Left)
Azimuth Adjustment Screw (Right)

Figure 23

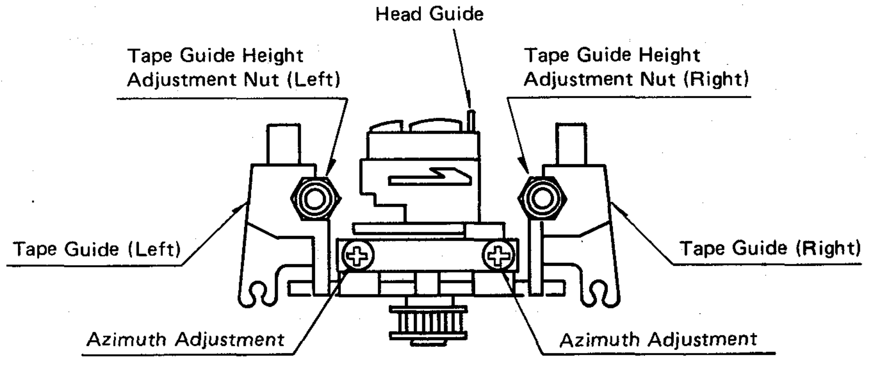

Head Guide
Tape Guide Height Adjustment Nut (Left)
Tape Guide Height Adjustment Nut (Right)
Tape Guide (Left)
Tape Guide (Right)
Azimuth Adjustment
Azimuth Adjustment

Figure 24

No.	Item	Reference Value	Tape	Volume				Switch			Adjustment Point	Test Point	Input Frequency ATT	Remarks
				Graphic EQ	Balance	REC	Main	DOLBY	PLAY REC	BEAT CUT				
1	Head Azimuth Adjustment Deck A, B, Forward, Reverse	Output max.	ATT-114	Center	Center	Center	Center	OFF	PLAY	Right Side ▮▮	Head Screw	TP DOLBY	–	After adjustment apply screw lock adhesive (lock tite 475) on screw. (Do not apply adhesive to rotational parts.)
2	Playback Frequency Response Mearurement Deck A, B, Forward, Reverse	0 ±4 dB	ATT-255C	Center	Center	Center	Center	OFF	PLAY	Right Side ▮▮	–	TP DOLBY	–	315 Hz – 10 kHz
3	Wow & Flutter Measurement Deck A, B, Forward, Reverse	0.07%	ATT-111	Center	Center	Center	Center	OFF	PLAY	Right Side ▮▮	–	TP DOLBY	–	3 kHz
4	Tape Speed Measurement Deck A, B, Forward Reverse	3000 ± 45 Hz	ATT-111	Center	Center	Center	Center	OFF	PLAY	Right Side ▮▮	If out of limit, adjust semi-fixed resistor inside motor.	TP DOLBY	–	Deviation of deck B shall be within 0 ∿ –30 Hz from that of deck A.
5	Playback Sensitivity Adjustment Deck A, B, Forward	100mV	ATT-150	Center	Center	Center	Center	ON	PLAY	Right Side ▮▮	A) R701 R702 B) R703 R704	TP DOLBY	–	
6	Bias Frequency Adjustment (Deck B)	85 kHz ± 0.1 kHz 87,5 kHz ± 0.1 kHz	–	Center	Center	Center	Center	OFF	REC	Right Side ▮▮ Left Side ▮	Z801	TP (OSC)	–	
7	Rec/Play Frequency Response Measurement & Adjustment (Deck B)	0 ±3 dB	AC-512 CrO_2	Center	Center	Center	Center	OFF	REC & PLAY	Right Side ▮▮	R699 R700	TP DOLBY	315 Hz 10 kHz –20 dB	Input: Aux. Adjust bias current with R699 and R700.
8	Rec/Play Sensitivity Adjustment (Deck B)	1 ±2 dB	AC-512 CrO_2	Center	Center	Center	Center	OFF	REC & PLAY	Right Side ▮▮	R675 R676	TP DOLBY	315 Hz –9.4 dB	Input: Aux. Adjust so that REC → PLAY level difference becomes 0 dB at DOLBY TP.

TE, TU, AY, ME Model

6. ELECTRICAL PARTS LOCATIONS

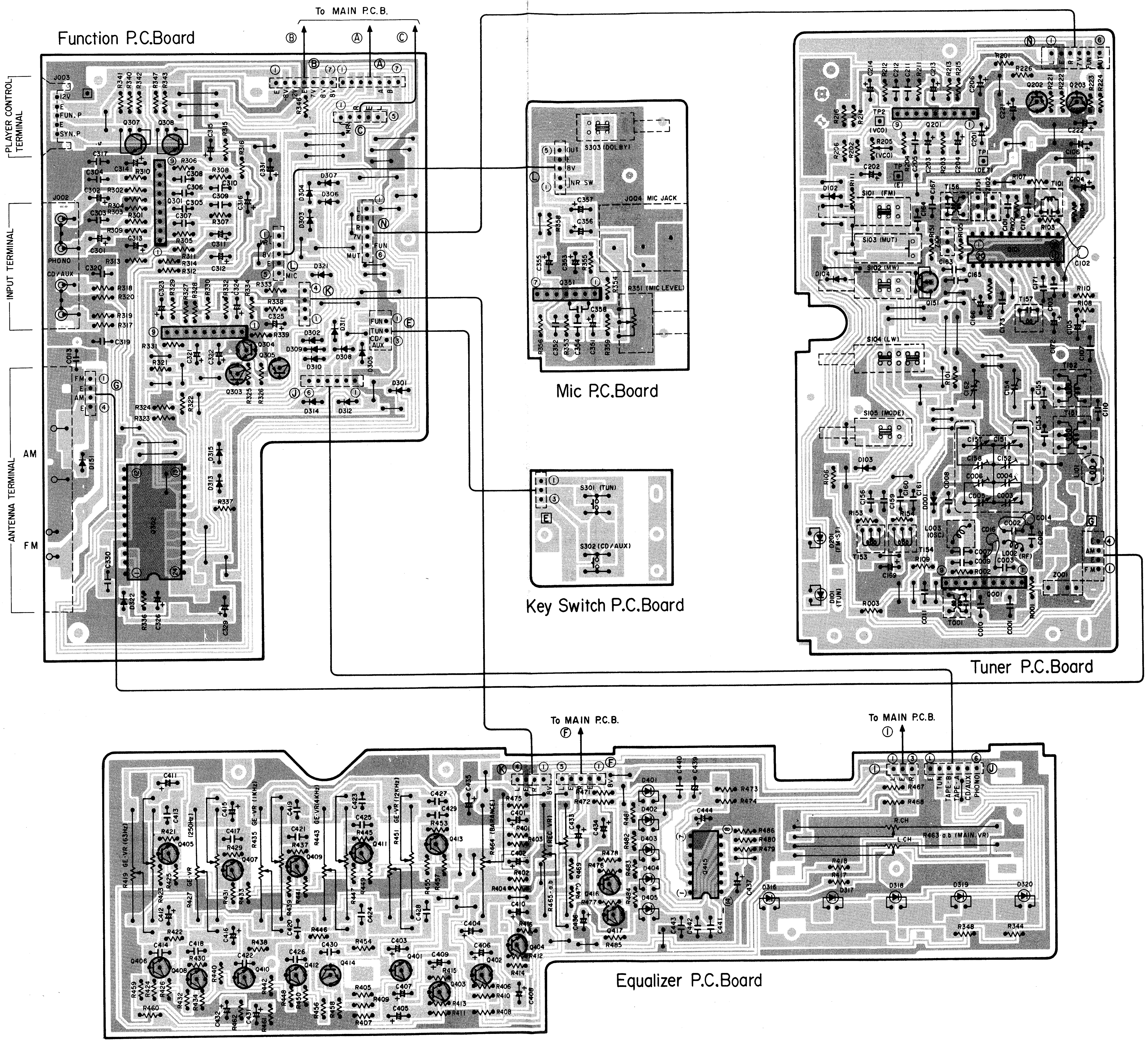
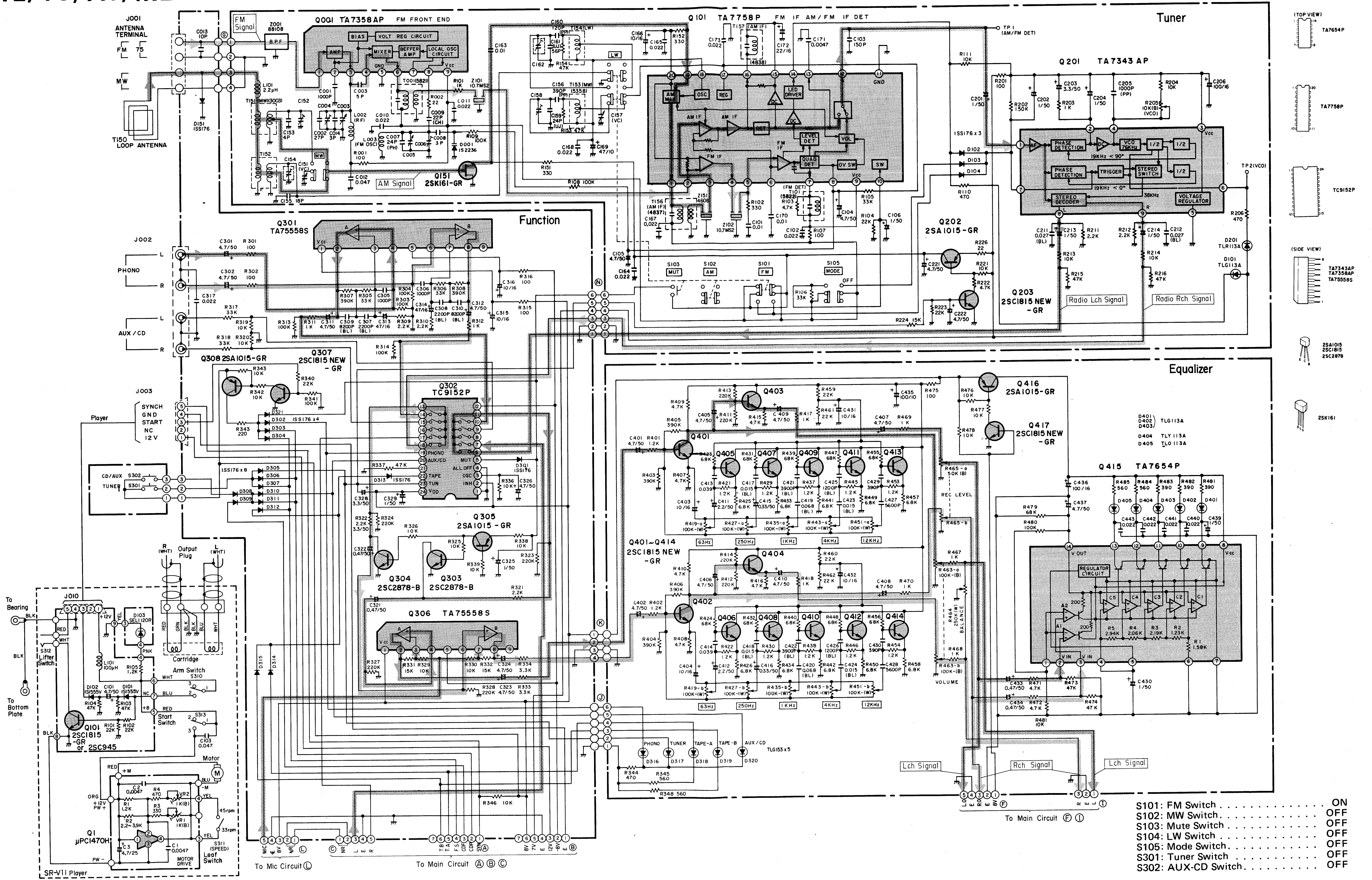

To MAIN P.C.B.
Ⓑ Ⓐ Ⓒ
Function P.C.Board
PLAYER CONTROL TERMINAL
INPUT TERMINAL
ANTENNA TERMINAL
AM
FM
PHONO
CD/AUX
Mic P.C.Board
S303 (DOLBY)
J004 MIC JACK
R351 (MIC LEVEL)
Key Switch P.C.Board
S301 (TUN)
S302 (CD/AUX)
Tuner P.C.Board
S101 (FM)
S102 (MW)
S103 (MUT)
S104 (LW)
S105 (MODE)
To MAIN P.C.B.
Ⓕ
To MAIN P.C.B.
Ⓘ
Equalizer P.C.Board
R463-a·b (MAIN VR)
R464 (BALANCE)
R465-a·b
R.CH
L.CH

Figure 25

TE, TU, AY, ME Model

7. SCHEMATIC DIAGRAM


Tuner
Function
Equalizer
Q001 TA7358AP FM FRONT END
Q101 TA7758P FM IF AM/FM IF DET
Q201 TA7343AP
Q202 2SA1015-GR
Q203 2SC1815 NEW -GR
Q301 TA75558S
Q302 TC9152P
Q303 2SC2878-B
Q304 2SC2878-B
Q305 2SA1015-GR
Q306 TA75558S
Q307 2SC1815 NEW -GR
Q308 2SA1015-GR
Q401~Q414 2SC1815 NEW -GR
Q415 TA7654P
Q416 2SA1015-GR
Q417 2SC1815 NEW -GR
Q151 2SK161-GR
J001 ANTENNA TERMINAL
FM 75
MW
T150 LOOP ANTENNA
J002
PHONO
AUX/CD
J003
Player
SYNCH
GND
START
NC
12V
CD/AUX S302
TUNER S301
FM Signal
AM Signal
Radio Lch Signal
Radio Rch Signal
Lch Signal
Rch Signal
TP1 (AM/FM DET)
TP2 (VCO)
S103 MUT
S102 AM
S101 FM
S105 MODE
63Hz
250Hz
1KHz
4KHz
12KHz
REC LEVEL
BALANCE
VOLUME
Output Plug
Cartridge
Arm Switch S310
Start Switch
Motor
45rpm
33rpm
S311 (SPEED) Leaf Switch
MOTOR DRIVE
Q1 μPC1470H
Q101 2SC1815 -GR or 2SC945
J010
To Bearing
To Bottom Plate
Lifter Switch
SR-V11 Player
PHONO
TUNER
TAPE-A
TAPE-B
AUX/CD
TLG153 x5
To Mic Circuit Ⓛ
To Main Circuit Ⓐ Ⓑ Ⓒ
To Main Circuit Ⓕ Ⓘ
(TOP VIEW)
TA7654P
TA7758P
TC9152P
(SIDE VIEW)
TA7343AP
TA7358AP
TA75558S
2SA1015
2SC1815
2SC2878
2SK161
D401 D402 D403 TLG113A
D404 TLY113A
D405 TLO113A

S101: FM Switch . . . . ON
S102: MW Switch. . . . . OFF
S103: Mute Switch . . . . OFF
S104: LW Switch . . . . OFF
S105: Mode Switch. . . . . OFF
S301: Tuner Switch . . . . OFF
S302: AUX-CD Switch. . . . . OFF

Figure 26

CAUTION:
The ⚠ mark, the symbol No. circled with oval in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

VF Model

8. ELECTRICAL PARTS LOCATIONS

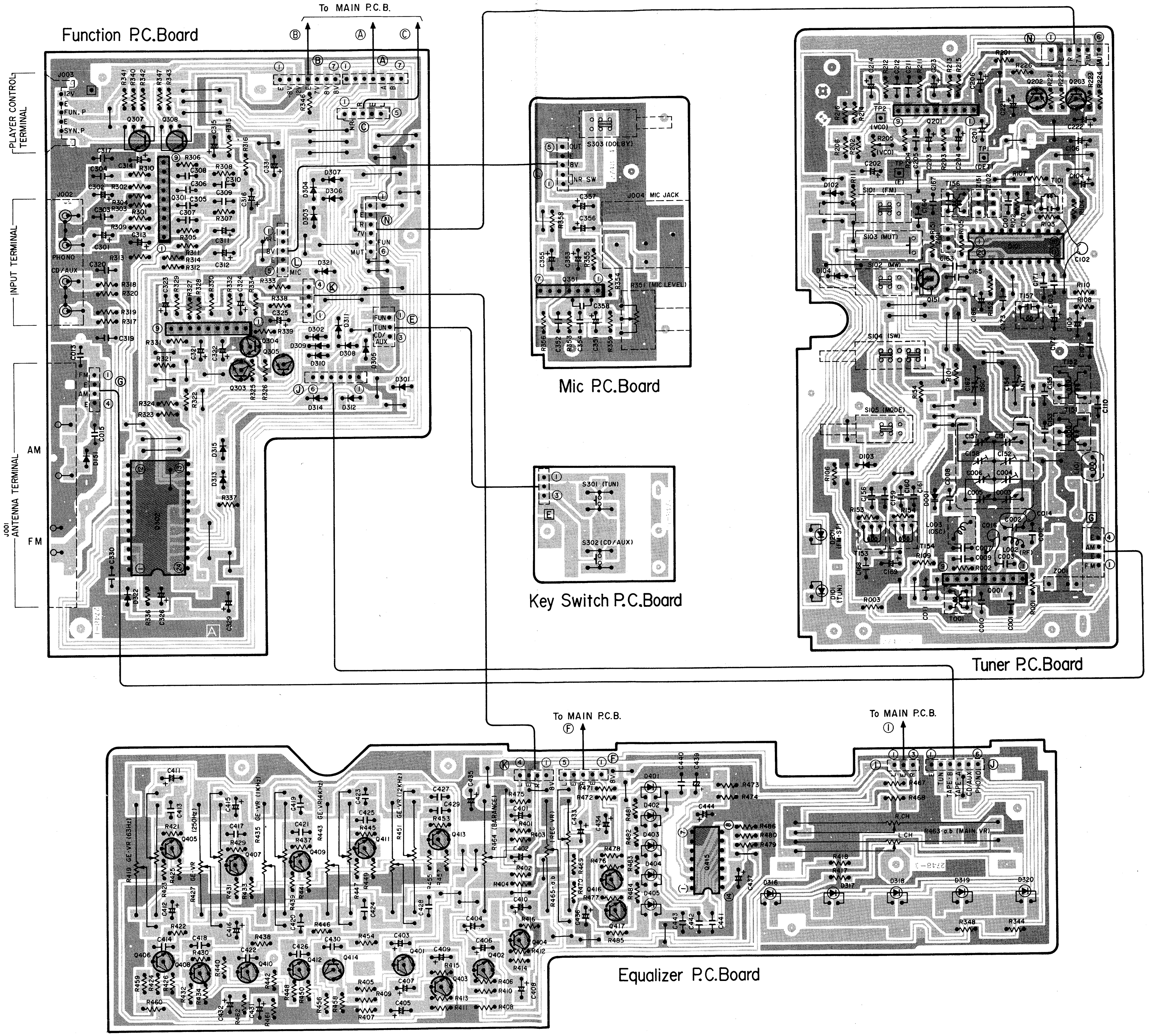
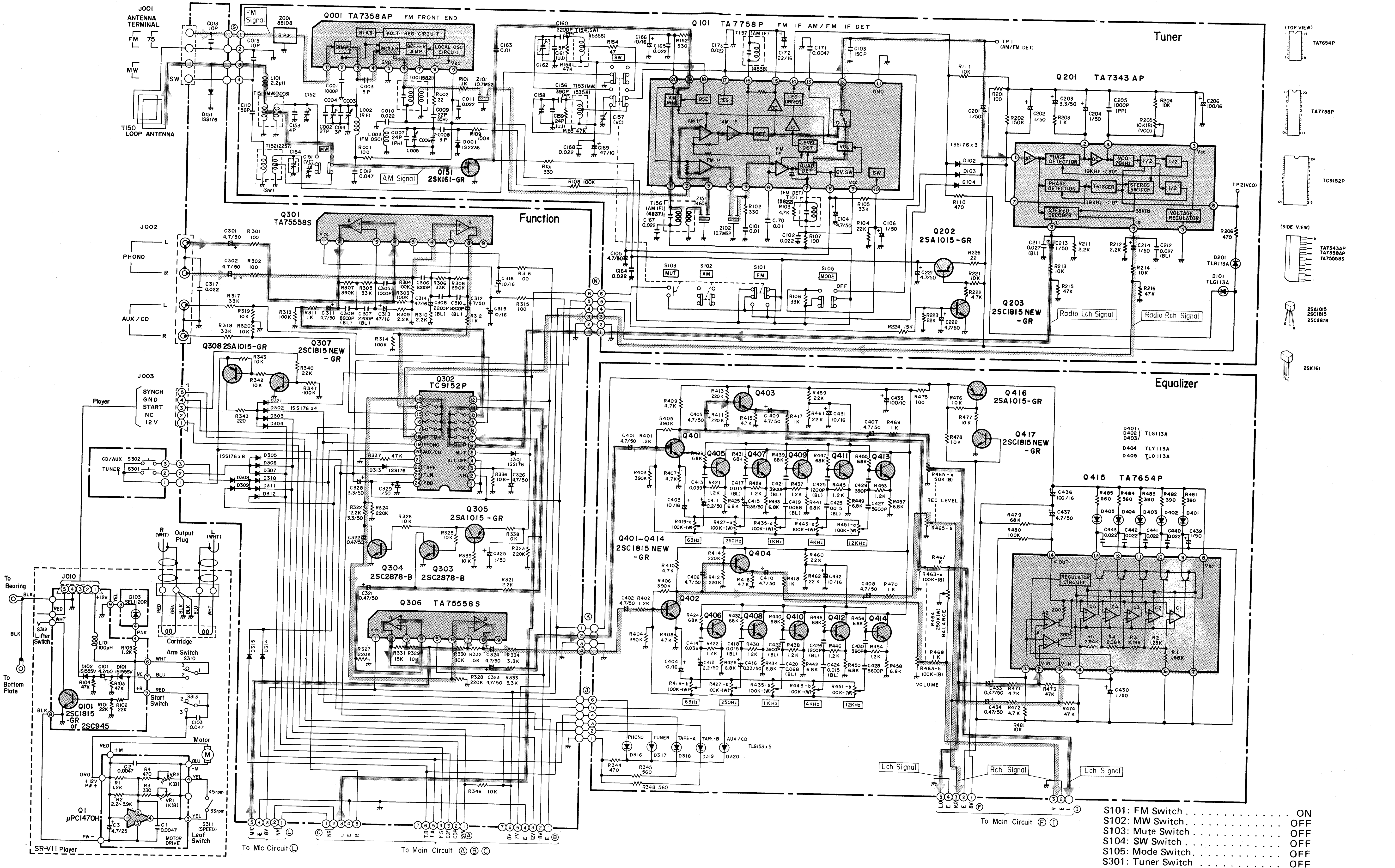

To MAIN P.C.B.
Function P.C.Board
PLAYER CONTROL TERMINAL
J003
12V
E
FUN. P
E
SYN. P
INPUT TERMINAL
J002
PHONO
CD/AUX
J001
ANTENNA TERMINAL
AM
FM
Mic P.C.Board
S303 (DOLBY)
OUT
8V
NR SW
J004 MIC JACK
R351 (MIC LEVEL)
Key Switch P.C.Board
S301 (TUN)
S302 (CD/AUX)
Tuner P.C.Board
S101 (FM)
S102 (MW)
S103 (MUT)
S104 (SW)
S105 (MODE)
Equalizer P.C.Board
To MAIN P.C.B.
To MAIN P.C.B.
GE-VR (63Hz)
GE-VR (250Hz)
GE-VR (1KHz)
GE-VR (4KHz)
GE-VR (12KHz)
R454 (BALANCE)
R464 (REC VR)
R463-a.b (MAIN VR)
TUN
TAPE-1
TAPE-2
CD/AUX
PHONO

Figure 27

VF Model

9. SCHEMATIC DIAGRAM


J001 ANTENNA TERMINAL
FM 75
MW
SW
T150 LOOP ANTENNA
FM Signal
Q001 TA7358AP FM FRONT END
BIAS
VOLT REG CIRCUIT
AMP
MIXER
BEFFER AMP
LOCAL OSC CIRCUIT
AM Signal
Q151 2SK161-GR
Q101 TA7758P FM IF AM/FM IF DET
AM MIX
OSC
REG
LED DRIVER
AM IF
FM IF
DET
LEVEL DET
QUAD DET
VOL
OV SW
SW
GND
TP1 (AM/FM DET)
Tuner
Q201 TA7343AP
PHASE DETECTION
VCO 76KHz
TRIGGER
STEREO SWITCH
STEREO DECODER
VOLTAGE REGULATOR
19KHz < 90°
19KHz < 0°
38KHz
TP2(VCO)
Q202 2SA1015-GR
Q203 2SC1815 NEW -GR
Radio Lch Signal
Radio Rch Signal
D201 TLR113A
D101 TLG113A
S103 MUT
S102 AM
S101 FM
S105 MODE
Function
J002
PHONO
AUX/CD
Q301 TA75558S
Q308 2SA1015-GR
Q307 2SC1815 NEW -GR
J003
Player
SYNCH
GND
START
NC
12V
Q302 TC9152P
PHONO
AUX/CD
TAPE
TUN
VDD
MUT
ALL OFF
OSC
INH
CD/AUX S302
TUNER S301
Q305 2SA1015-GR
Q304 2SC2878-B
Q303 2SC2878-B
Q306 TA75558S
Output Plug
R (WHT)
L (WHT)
Cartridge
Arm Switch S310
Start Switch
To Bearing
To Bottom Plate
S312 Lifter Switch
J010
Q101 2SC1815 -GR or 2SC945
Motor
Q1 μPC1470H
S311 (SPEED) Leaf Switch
MOTOR DRIVE
45rpm
33rpm
SR-V11 Player
Equalizer
Q401~Q414 2SC1815 NEW -GR
Q403
Q404
Q416 2SA1015-GR
Q417 2SC1815 NEW -GR
Q415 TA7654P
REGULATOR CIRCUIT
D401 D402 D403 TLG113A
D404 TLY113A
D405 TLO113A
63Hz
250Hz
1KHz
4KHz
12KHz
REC LEVEL
VOLUME
BALANCE
PHONO
TUNER
TAPE-A
TAPE-B
AUX/CD
TLG153x5
Lch Signal
Rch Signal
To Mic Circuit Ⓛ
To Main Circuit Ⓐ Ⓑ Ⓒ
To Main Circuit Ⓕ Ⓘ
(TOP VIEW)
TA7654P
TA7758P
TC9152P
(SIDE VIEW)
TA7343AP
TA7358AP
TA75558S
2SA1015
2SC1815
2SC2878
2SK161

S101: FM Switch . . . . ON
S102: MW Switch. . . . . OFF
S103: Mute Switch . . . . OFF
S104: SW Switch . . . . OFF
S105: Mode Switch. . . . . OFF
S301: Tuner Switch . . . . OFF
S302: AUX-CD Switch. . . . . OFF

Figure 28

CAUTION:
The ⚠ mark, the symbol No. circled with oval in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

TE, TU, AY, ME, VF Model

10. ELECTRICAL PARTS LOCATIONS

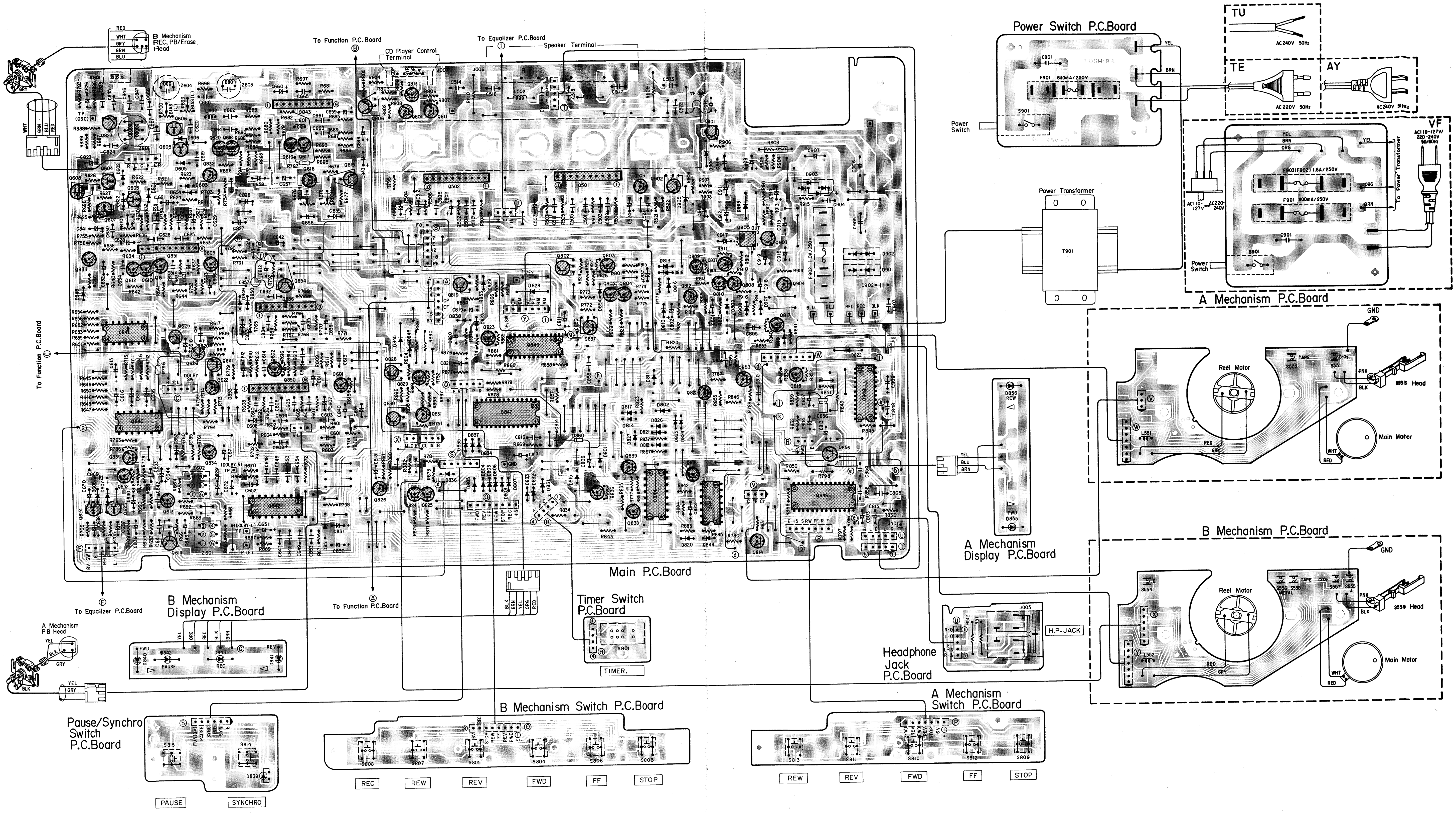
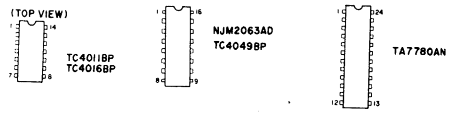
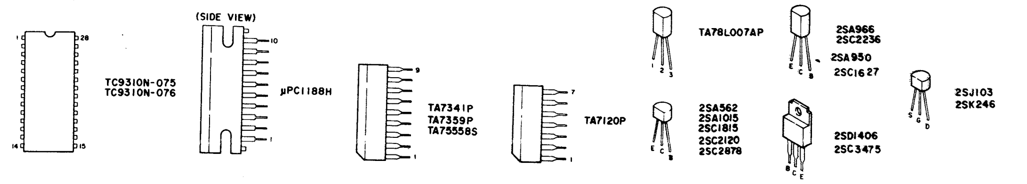

B Mechanism REC, PB/Erase Head
To Function P.C.Board Ⓑ
CD Player Control Terminal
To Equalizer P.C.Board Ⓘ
Speaker Terminal
Power Switch P.C.Board
Power Switch
TU
AC240V 50Hz
TE
AC220V 50Hz
AY
AC240V 50Hz
VF
AC110-127V/220-240V 50/60Hz
Power Transformer
T901
To Power Transformer
F903(F902) 1.6A/250V
F901 800mA/250V
F901 630mA/250V
S901
A Mechanism P.C.Board
GND
Reel Motor
Main Motor
S553 Head
To Function P.C.Board Ⓒ
Main P.C.Board
A Mechanism Display P.C.Board
B Mechanism P.C.Board
S559 Head
To Equalizer P.C.Board Ⓕ
B Mechanism Display P.C.Board
To Function P.C.Board Ⓐ
Timer Switch P.C.Board
TIMER.
Headphone Jack P.C.Board
H.P-JACK
A Mechanism PB Head
Pause/Synchro Switch P.C.Board
PAUSE
SYNCHRO
B Mechanism Switch P.C.Board
REC
REW
REV
FWD
FF
STOP
A Mechanism Switch P.C.Board
REW
REV
FWD
FF
STOP

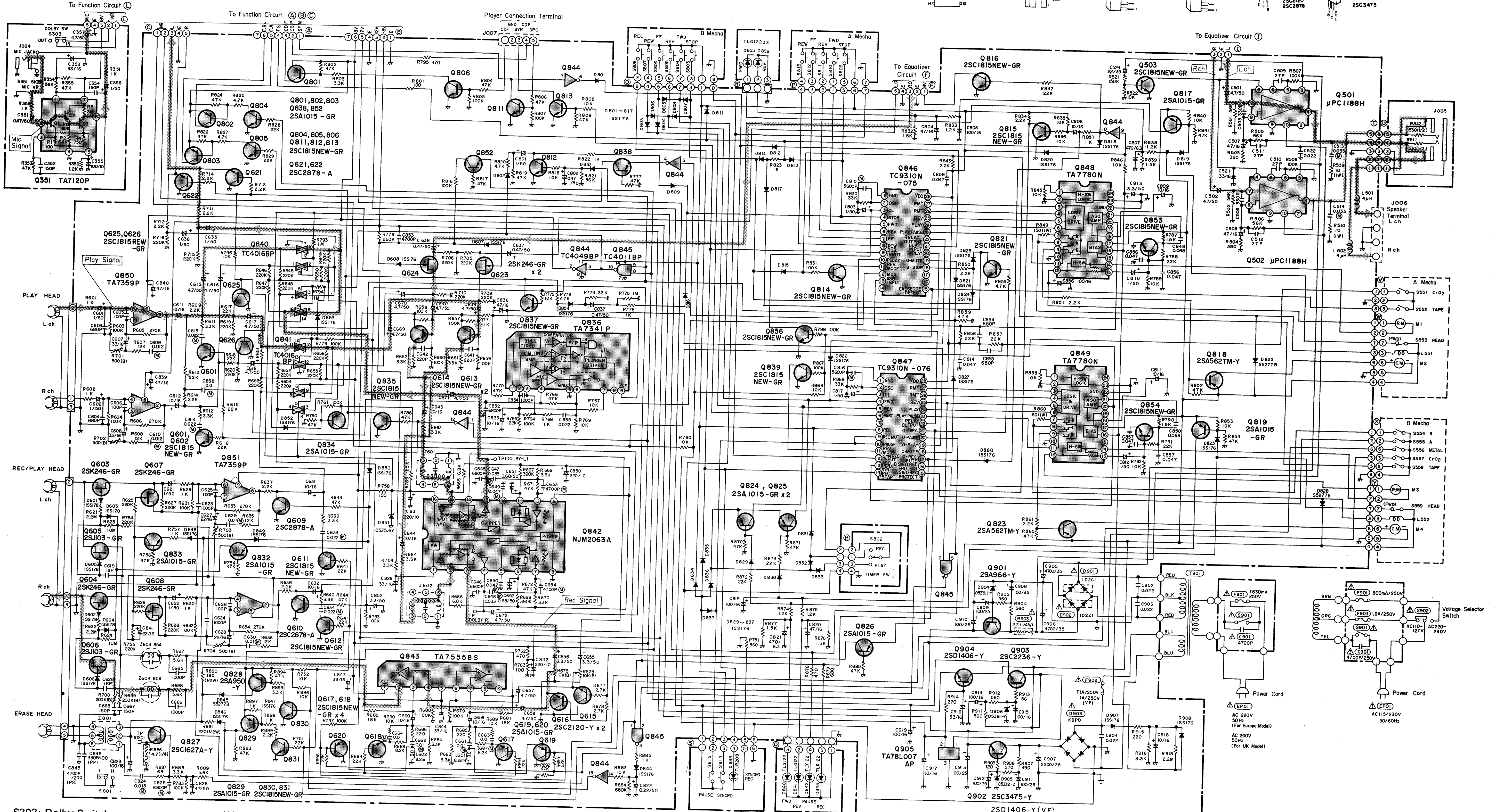
Figure 29

TE, TU, AY, ME, VF Model

11. SCHEMATIC DIAGRAM


(TOP VIEW)
TC4011BP
TC4016BP
NJM2063AD
TC4049BP
TA7780AN


(SIDE VIEW)
TC9310N-075
TC9310N-076
μPC1188H
TA7341P
TA7359P
TA75558S
TA7120P
TA78L007AP
2SA966
2SC2236
2SA950
2SC1627
2SA562
2SA1015
2SC1815
2SC2120
2SC2878
2SD1406
2SC3475
2SJ103
2SK246


To Function Circuit Ⓛ
To Function Circuit Ⓐ Ⓑ Ⓒ
Player Connection Terminal
B Mecha
A Mecha
To Equalizer Circuit Ⓕ
To Equalizer Circuit Ⓘ
Q351 TA7120P
Mic Signal
Play Signal
PLAY HEAD
L ch
R ch
REC/PLAY HEAD
ERASE HEAD
Q850 TA7359P
Q851 TA7359P
Q840 TC4016BP
Q841 TC4016BP
Q844 TC4049BP
Q845 TC4011BP
Q846 TC9310N-075
Q847 TC9310N-076
Q848 TA7780N
Q849 TA7780N
Q836 TA7341P
Q842 NJM2063A
Q843 TA75558S
Q501 μPC1188H
Q502 μPC1188H
Q901 2SA966-Y
Q904 2SD1406-Y
Q903 2SC2236-Y
Q905 TA78L007AP
Q902 2SC3475-Y
2SD1406-Y(VF)
Rec Signal
J005
J006 Speaker Terminal
Power Cord
Voltage Selector Switch
AC 220V 50Hz (For Europe Model)
AC 240V 50Hz (For UK Model)
AC115/230V 50/60Hz

S303: Dolby Switch . . . . IN
S551: CrO₂ Switch . . . . OFF
S552: Tape Detect Switch (A) . . . . . OFF
S553: FWD Switch (A). . . . . ON
S554: Tape B Detect Switch (B) . . . . OFF
S555: Tape A Detect Switch (B) . . . . OFF
S556: Metal Detect Switch (B) . . . . . OFF
S557: CrO₂ Switch (B). . . . . OFF
S558: Tape Detect Switch (B). . . . . . OFF

S559: FWD Switch (B). . . . . ON
S801: Beat Switch I
S802: Timer Switch I
S803: Stop Switch (B) . . . . OFF
S804: FWD Switch (B). . . . . OFF
S805: REV Switch (B). . . . . OFF
S806: FF Switch (B) . . . . OFF
S807: REW Switch (B). . . . . OFF
S808: REC Switch (B) . . . . OFF

S809: Stop Switch (A) . . . . OFF
S810: FWD Switch (A). . . . . OFF
S811: REV Switch (A). . . . . OFF
S812: FF Switch (A). . . . . OFF
S813: REW Switch (A). . . . . OFF
S814: Syncro Switch . . . . OFF
S815: Pause Switch . . . . OFF
S901: Power Switch . . . . OFF
S902: Voltage Select Switch. . . 110 – 127V

Figure 30

CAUTION:
The ⚠ mark, the symbol No. circled with oval in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

TD Model

12. ELECTRICAL PARTS LOCATIONS

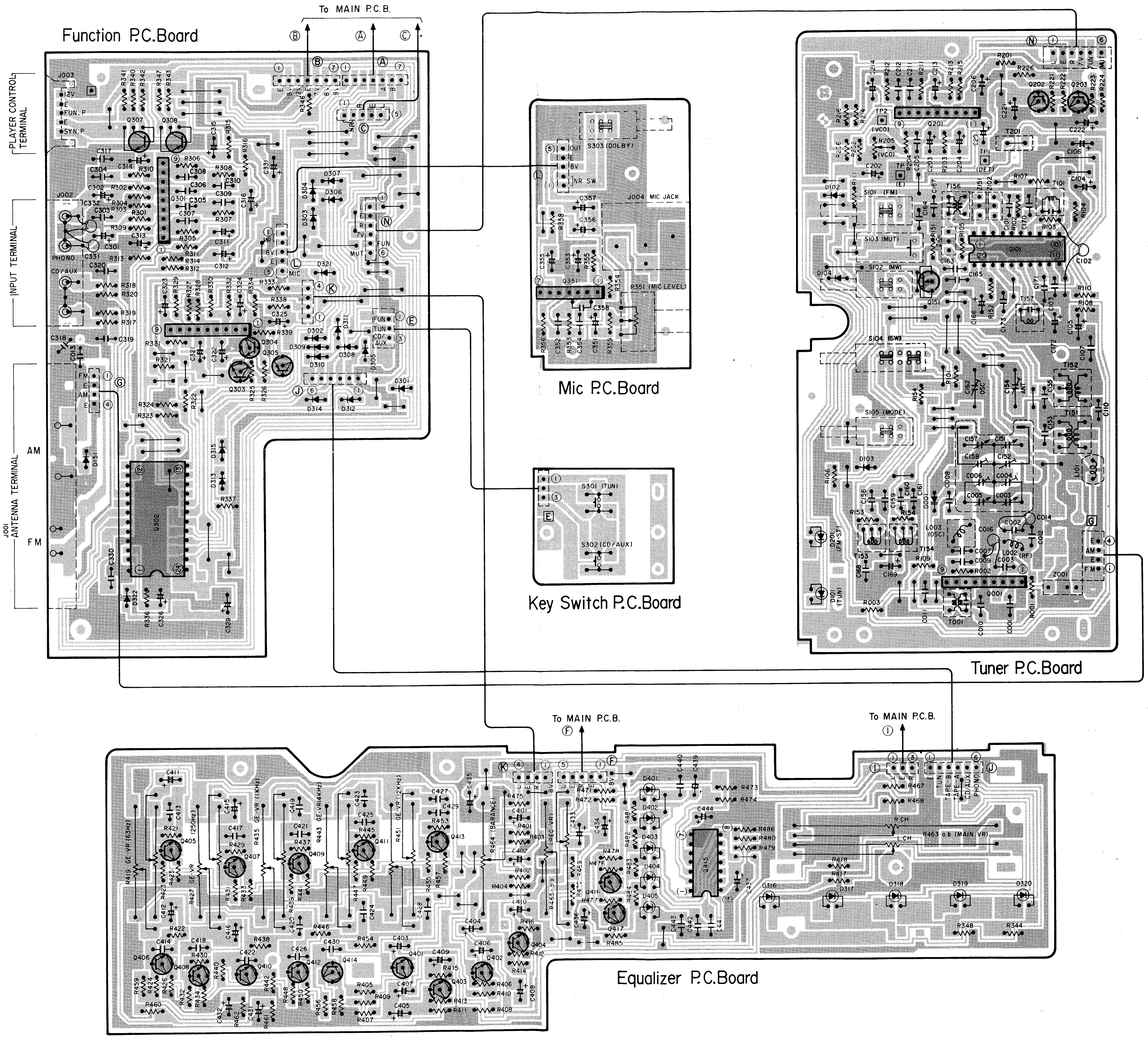
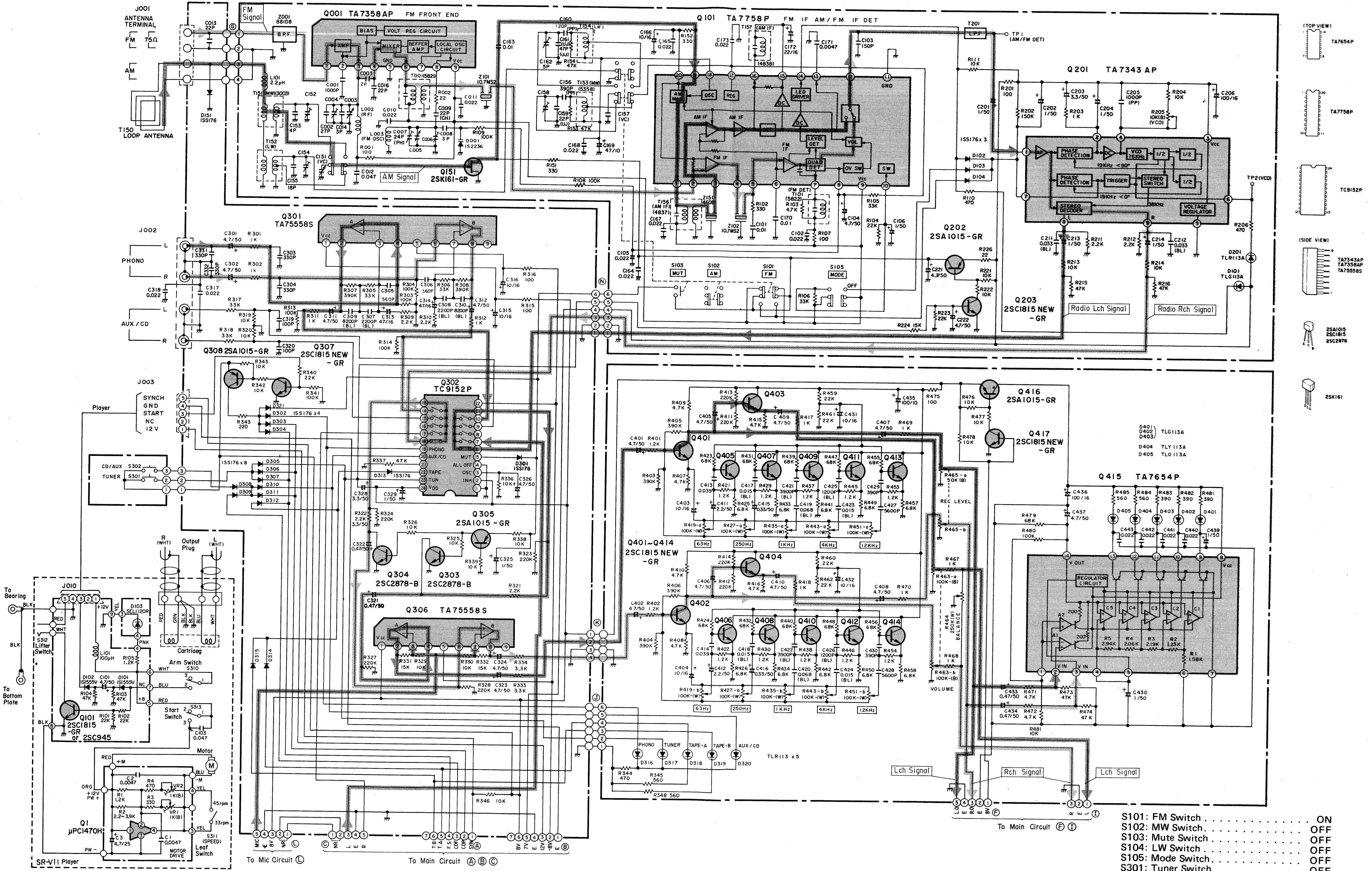

To MAIN P.C.B.
Function P.C.Board
PLAYER CONTROL TERMINAL
J003
12V
E
FUN. P
SYN. P
INPUT TERMINAL
J002
PHONO
CD/AUX
ANTENNA TERMINAL
J001
AM
FM
Q302
Mic P.C.Board
S303 (DOLBY)
OUT
8V
NR SW
J004 MIC JACK
Q351
R351 (MIC LEVEL)
Key Switch P.C.Board
S301 (TUN)
S302 (CD/AUX)
Tuner P.C.Board
S101 (FM)
S103 (MUT)
S102 (MW)
S104 (SW)
S105 (MODE)
Q101
Q201
Q001
T001
L002 (RF)
L003 (OSC)
D201 (FM ST)
D101 (TUN)
Equalizer P.C.Board
GE-VR (63Hz)
GE-VR (250Hz)
GE-VR (1kHz)
GE-VR (4kHz)
GE-VR (12kHz)
R464 (BALANCE)
REC VR
R463 a,b (MAIN VR)
R CH
L CH
Q415
TUN
TAPE B
TAPE A
CD/AUX
PHONO

Figure 31

TD Model

13. SCHEMATIC DIAGRAM


J001 ANTENNA TERMINAL
FM 75Ω
AM
T150 LOOP ANTENNA
Q001 TA7358AP FM FRONT END
BIAS
VOLT REG CIRCUIT
AMP
MIXER
BEFFER AMP
LOCAL OSC CIRCUIT
FM Signal
AM Signal
Q151 2SK161-GR
Q101 TA7758P FM IF AM/FM IF DET
AM IF
FM IF
OSC
REG
LED DRIVER
LEVEL DET
QUAD DET
VOL
OV SW
SW
T201 LPF
TP1 (AM/FM DET)
Q201 TA7343AP
PHASE DETECTION
VCO 76KHz
1/2
TRIGGER
STEREO SWITCH
STEREO DECODER
VOLTAGE REGULATOR
TP2(VCO)
Q202 2SA1015-GR
Q203 2SC1815 NEW -GR
Radio Lch Signal
Radio Rch Signal
S103 MUT
S102 AM
S101 FM
S105 MODE
J002 PHONO
AUX/CD
Q301 TA75558S
Q307 2SC1815 NEW -GR
Q308 2SA1015-GR
J003 SYNCH GND START NC 12V
Player
CD/AUX S302
TUNER S301
Q302 TC9152P
PHONO
AUX/CD
TAPE
TUN
MUT
ALL OFF
OSC
INH
Q305 2SA1015-GR
Q304 2SC2878-B
Q303 2SC2878-B
Q306 TA75558S
Output Plug
J010
To Bearing
To Bottom Plate
S312 Lifter Switch
Cartridge
Arm Switch S310
Start Switch S313
Q101 2SC1815 -GR or 2SC945
Motor
Q1 μPC1470H
S311 (SPEED) Leaf Switch
45rpm
33rpm
MOTOR DRIVE
SR-V11 Player
Q401~Q414 2SC1815 NEW -GR
Q403
Q404
Q401
Q402
63Hz
250Hz
1KHz
4KHz
12KHz
REC LEVEL
R464 250K(W) BALANCE
VOLUME
Q416 2SA1015-GR
Q417 2SC1815 NEW -GR
Q415 TA7654P
REGULATOR CIRCUIT
D401, D402, D403 TLG113A
D404 TLY113A
D405 TLO113A
PHONO TUNER TAPE-A TAPE-B AUX/CD
TLR113 x5
Lch Signal
Rch Signal
Lch Signal
To Mic Circuit Ⓛ
To Main Circuit ⒶⒷⒸ
To Main Circuit Ⓕ Ⓘ
(TOP VIEW)
TA7654P
TA7758P
TC9152P
(SIDE VIEW)
TA7343AP
TA7358AP
TA75558S
2SA1015
2SC1815
2SC2878
2SK161

S101: FM Switch . . . . ON
S102: MW Switch. . . . . OFF
S103: Mute Switch . . . . OFF
S104: LW Switch . . . . OFF
S105: Mode Switch. . . . . OFF
S301: Tuner Switch . . . . OFF
S302: AUX-CD Switch. . . . . OFF

Figure 32

CAUTION:
The ⚠ mark, the symbol No. circled with oval in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

TD Model

14. ELECTRICAL PARTS LOCATIONS

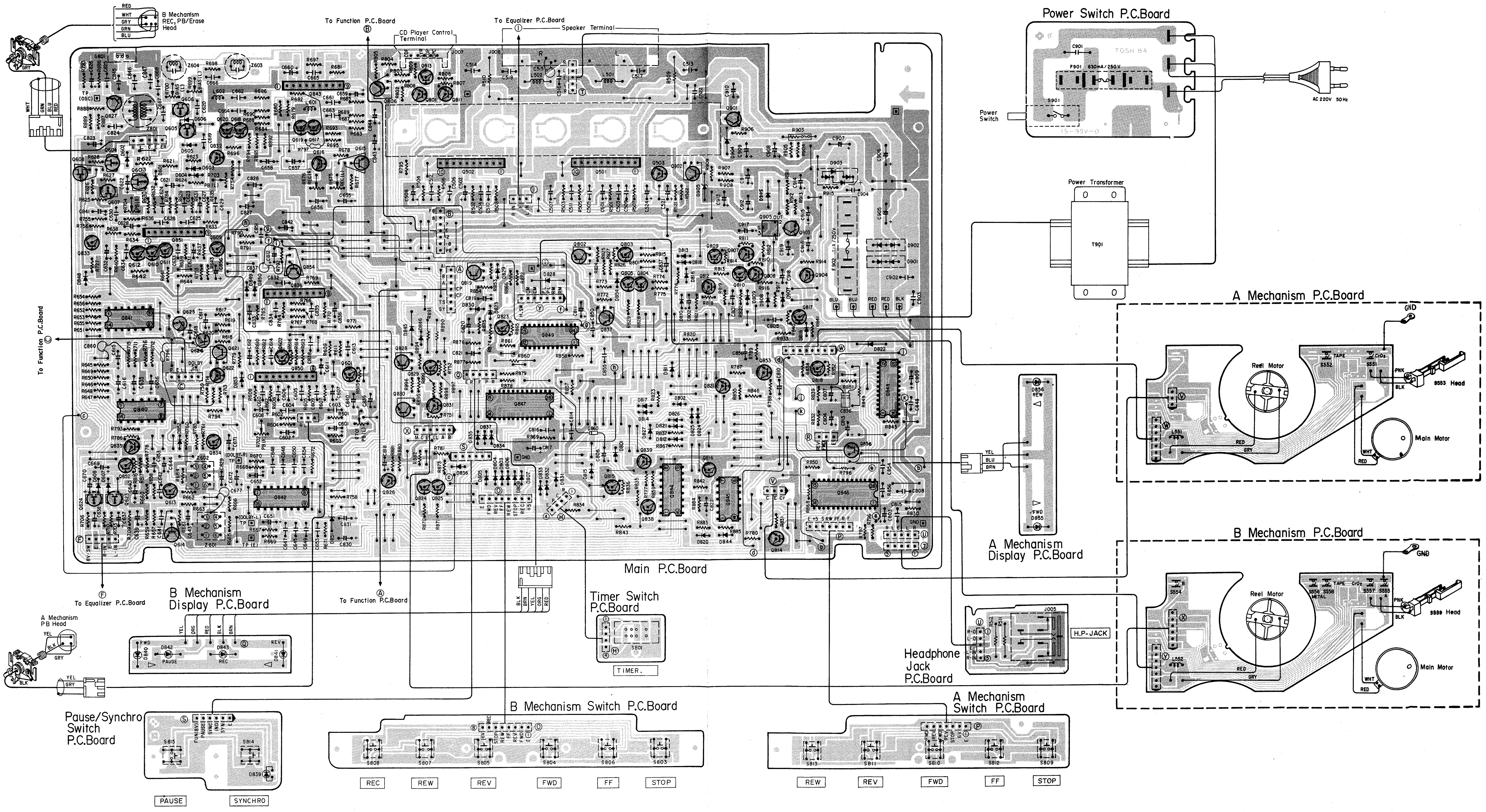
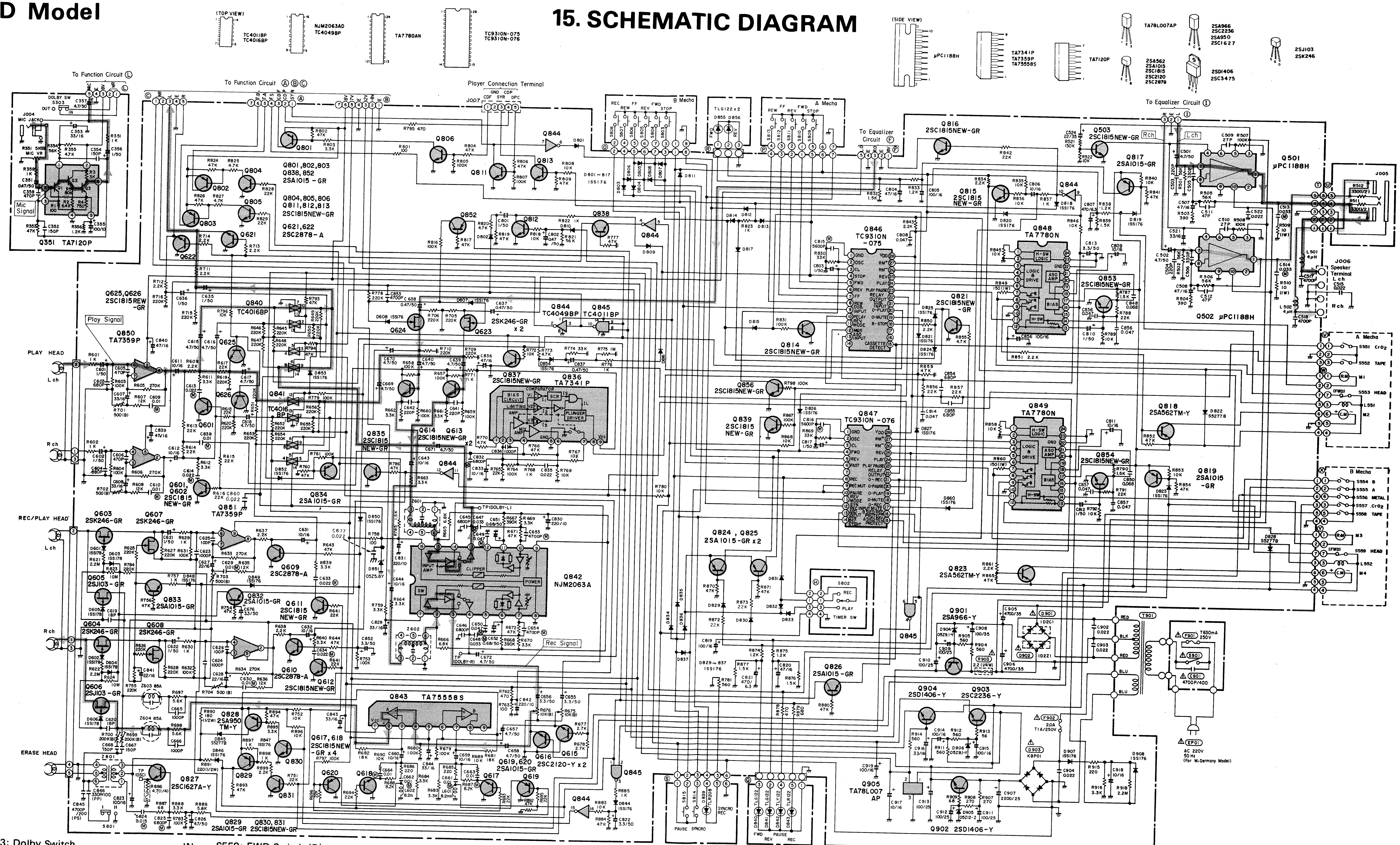

B Mechanism REC, PB/Erase Head
To Function P.C.Board
CD Player Control Terminal
To Equalizer P.C.Board
Speaker Terminal
Power Switch P.C.Board
Power Switch
F901 630mA/250V
S901
AC 220V 50Hz
Power Transformer
T901
A Mechanism P.C.Board
GND
Reel Motor
Main Motor
S553 Head
A Mechanism Display P.C.Board
B Mechanism P.C.Board
S559 Head
Main P.C.Board
To Equalizer P.C.Board
B Mechanism Display P.C.Board
To Function P.C.Board
Timer Switch P.C.Board
S801
TIMER.
Headphone Jack P.C.Board
J005
H.P-JACK
A Mechanism PB Head
Pause/Synchro Switch P.C.Board
S815
S814
D839
PAUSE
SYNCHRO
B Mechanism Switch P.C.Board
S808
S807
S805
S804
S806
S803
REC
REW
REV
FWD
FF
STOP
A Mechanism Switch P.C.Board
S813
S811
S810
S812
S809
REW
REV
FWD
FF
STOP

Figure 33

TD Model

15. SCHEMATIC DIAGRAM


(TOP VIEW)
TC4011BP
TC4016BP
NJM2063AD
TC4049BP
TA7780AN
TC9310N-075
TC9310N-076
(SIDE VIEW)
μPC1188H
TA7341P
TA7359P
TA7555BS
TA7120P
TA78L007AP
2SA966
2SC2236
2SA950
2SC1627
2SA562
2SA1015
2SC1815
2SC2120
2SC2878
2SD1406
2SC3475
2SJ103
2SK246
To Function Circuit Ⓛ
To Function Circuit ⒶⒷⒸ
Player Connection Terminal
To Equalizer Circuit Ⓕ
To Equalizer Circuit Ⓘ
B Mecha
A Mecha
Mic Signal
Q351 TA7120P
Play Signal
Rec Signal
PLAY HEAD
REC/PLAY HEAD
ERASE HEAD
Lch
Rch
Q501 μPC1188H
Q502 μPC1188H
J005
J006 Speaker Terminal
Q840 TC4016BP
Q842 NJM2063A
Q843 TA7555BS
Q846 TC9310N-075
Q847 TC9310N-076
Q848 TA7780N
Q849 TA7780N
Q836 TA7341P
Q850 TA7359P
Q851 TA7359P
Q905 TA78L007AP
Q901 2SA966-Y
Q902 2SD1406-Y
Q903 2SC2236-Y
Q904 2SD1406-Y
T901
AC 220V 50Hz (For W.Germany Model)

S303: Dolby Switch . . . . IN
S551: CrO$_2$ Switch . . . . OFF
S552: Tape Detect Switch (A) . . . . . OFF
S553: FWD Switch (A). . . . . ON
S554: Tape B Detect Switch (B) . . . . OFF
S555: Tape A Detect Switch (B) . . . . OFF
S556: Metal Detect Switch (B) . . . . . OFF
S557: CrO$_2$ Switch (B). . . . . OFF
S558: Tape Detect Switch (B). . . . . . OFF

S559: FWD Switch (B). . . . . ON
S801: Beat Switch I
S802: Timer Switch . . . . OFF
S803: Stop Switch (B) . . . . OFF
S804: FWD Switch (B). . . . . OFF
S805: REV Switch (B). . . . . OFF
S806: FF Switch (B) . . . . OFF
S807: REW Switch (B). . . . . OFF
S808: REC Switch (B) . . . . OFF

S809: Stop Switch (A) . . . . OFF
S810: FWD Switch (A). . . . . OFF
S811: REV Switch (A). . . . . OFF
S812: FF Switch (A) . . . . OFF
S813: REW Switch (A). . . . . OFF
S814: Syncro Switch . . . . OFF
S815: Pause Switch . . . . OFF
S901: Power Switch . . . . OFF

Figure 34

CAUTION:
The ⚠ mark, the symbol No. circled with oval in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

Q001

	FM	AM
1	0.85V	0V
2	1.60V	0V
3	6.08V	0V
4	1.55V	0V
5	0V	0V
6	6.16V	0V
7	5.42V	0V
8	6.08V	0V
9	6.16V	0V

Q101

	FM	AM
1	6.2V	6.2V
2	1.65V	1.64V
3	1.8V	1.6V
4	1.27V	1.8V
5	1.4V	1.65V
6	1.4V	1.64V
7	5.7V	5.97V
8	2.54V	2.35V
9	5.7V	5.97V
10	2.7V	0.04V
11	0V	0V
12	1.6V	1.68V
13	0V	2.43V
14	5.95V	6.06V
15	1.1V	1.13V
16	1.1V	1.13V
17	2.36V	2.36V
18	2.36V	2.36V
19	1.65V	1.65V
20	1.65V	1.65V

No.14 PIN
TUN.IND ON 0.1V

Q201

	FM
1	3.24V
2	4.7V
3	6.08V
4	5.27V
5	0V
6	5.48V
7	5.56V
8	2.3V
9	2.3V

No.6 PIN
STREO 0.9V

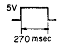
Q301

1	8.2V
2	0V
3	0V
4	0V
5	-8.5V
6	0V
7	0V
8	0V
9	8.2V

Q302

1	0V
2	8.6V
3	0V
4	0V
5	0V/5.0V
6	0V
7	0V
8	0V
9	0V
10	0V
11	0V
12	-8.8V
13	0.02V
14	0.01V
15	0.01V
16	0.01V
17	0.01V
18	0.01V
19	0.01V/6.1V
20	0.01V/6.1V
21	0.01V
22	0.01V/8.1V
23	6.06V/0V
24	8.6V

No.5 PIN
MUT.
FUNCTION SW

FUNCTION SW 

Q306

1	8.6V
2	0V
3	0V
4	0V
5	-8.9V
6	0V
7	0V
8	0V
9	8.6V

Q415

1	0V
2	0V
3	0V
4	1.27V
5	1.27V
6	0V
7	0V
8	8.0V
9	0.69V/0.3V
10	0.69V/0.3V
11	0.69V/0.3V
12	0.69V/0.3V
13	0.69V/0.3V
14	0V

Q151 AM-Only

S	0V
D	3.9V
G	0V

Q202 Other/Tuner Function

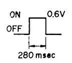
E	7.1V/6.4V
C	0V/6.17V
B	7.1V/5.6V

Q203 Other/Tuner Function

E	0V
C	7.1V/0V
B	0V/0.68V

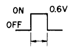
Q303 MUTE (Function select)

E	0V
C	0V
B	0V/0.6V



Q304 MUTE (Function select)

E	0V
C	0V
B	0V/0.6V



Q305 NOR./MUTE

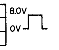
E	0V/3～4V
C	0V/3～4V
B	0V/2.4V

Q307 NOR./PHONO OPERATION

E	0V
C	8.6V/0V
B	0V/0.6V

Q308 NOR./Phono SW

E	8.6V
C	0V/8.0V
B	8.6V/7.9V



Q401,402

E	1.89V
C	5.93V
B	2.5V

Q403,404

E	3.0V
C	7.8V
B	3.6V

Q405,406

E	3.04V
C	7.8V
B	3.65V

Q407,408

E	3.06V
C	7.8V
B	3.66V

Q409,410

E	3.06V
C	7.8V
B	3.66V

Q411,412

E	3.06V
C	7.8V
B	3.66V

Q413,414

E	3.06V
C	7.8V
B	3.66V

Q416 Other/2sec after

E	8.55V
C	0V/8.5V
B	8.5V/7.84V

Q417 Other/2sec after

E	0V
C	8.6V/0V
B	0V/0.7V

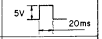
Q101

	STOP	PLAY
E	0V	0V
C	8.33V	0V
B	0V	0.7V

Q1

	33rpm	45rpm
1	11.58V	11.58V
2	9.19V	8.0V
3	0V	0V
4	7.9V	6.7V

Q836

		CONDITION
1	5.32V	
2	0.8V/2.7V	Other/Music selection
3	0.7V	
4	0.75V	
5	0V	
6	0.89V	
7	0.84V	
8	0V/5.0V	/MQS Blank Detection  5V 20ms
9	6.86V	

Q840

		CONDITION
1	1.8V	
2	1.8V	
3	1.8V	
4	1.8V	
5	6.2V/0V	Other/Dubing
6		
7	0V	
8	1.8V	
9	1.8V	
10	1.8V	
11	1.8V	
12	0V/6.2V	Other/Dubing
13		
14	5.7V	

Q841

		CONDITION
1	1.8V	
2	1.8V	
3	1.8V	
4	1.8V	
5	0V/5.0V	STOP/B.PLAY
6		
7	0V	
8	1.8V	
9	1.8V	
10	1.8V	
11	1.8V	
12	0V/5.7V	STOP/A.PLAY
13		
14	5.7V	

Q842

1	0.8V/0.2V/4.4V
2	1.52V
3	1.52V
4	1.52V
5	1.52V
6	1.52V
7	1.52V
8	0V
9	1.52V
10	1.52V
11	1.52V
12	1.52V
13	1.52V
14	1.52V
15	1.5V
16	5.65V

No.1 PIN
NR OUT/NR IN/NR IN REC

Q843

1	8.6V
2	0V
3	0V
4	0V
5	-8.6V
6	0V
7	0V
8	0V
9	8.6V

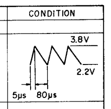
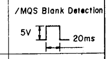
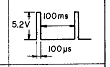
Q844

		CONDITION
1	6.3V	
2	0V/6.13V	Other/Dubing
3	6.2V/0V	
4	0V/4.4V	Play/Other
5	5.2V/0V	
6	0V/6.2V	Other
7	8.37V/0V	
8	0V	
9	6.6V/0V	Other/Power on 1～2sec after
10	0V/6.1V	
11	0V/5.5V	Other/REC, REC Pause
12	6.2V/0V	
13	0V	
14	5.5V/0V	Other/REC Play
15	0V/6.0V	
16	0V	

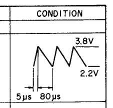
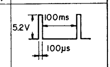
Q845

		CONDITION
1	0V/5.5V	Other/REC REC Pause
2	6.3V/0V	Other/Pause
3	6.2V/0V	Other/REC Play
4	6.3V/0V	Other/Pause
5	0V/5.6V	Other/Pause(Mute)
6	0V/5.6V	Other/Pause
7	0V	
8	0V/5.5V	Other/REC REC Pause
9	0V/5.6V	Other/A Play
10	6.2V/0V	Other/Dubing
11	0V	
12	6.3V	
13	6.3V	
14	6.3V	

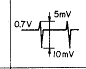
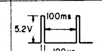
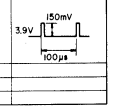
Q846

		CONDITION
1	0V	
2	3.0V	 3.8V 2.2V 5μs 80μs
3	6.2V	
4	0V/6.3V/5.0V	Other/Stop Key /Power on 1sec
5	0V/6.3V	Other/FWD Key
6	0V/6.3V	Other/REV Key
7	0V/6.3V	Other/FF Key
8	0V/6.3V	Other/REW Key
9	0V/5.5V	Other/Dubing
10	0V/5.6V	Other/B Play ASO Stop(200ms)
11	3.0V/0V	Other/B With Tape
12	0V/5.0V	/MQS Blank Detection  5V 20ms
13	Tape play	 5.2V 100ms 100μs
14	5.6V	
15	5.8V/0V	Other/In Cassette
16		
17	0V/5.8V	Other/MQSS
18	0V/5.6V	Other/A Play
19	0V/5.4V	Other/A Play
20	0V/5.3V	Other/A Play
21	0V/5.5V	Other/Dubing play
22	0V/5.6V	Other/A Play ASO Stop(200ms)
23	0V/5.6V	Other/A Play(60ms)
24	0V/5.6V	FF,REW,Stop/Other
25	0V/5.6V	Other/Stop(200ms)
26	0V/5.4V	Other/REV Play, REW
27	0V/5.4V	Other/FWD Play, FF, CUE
28	6.3V	

Q847

		CONDITION
1	0V	
2	3.2V	 3.8V 2.2V 5μs 80μs
3	6.2V	
4	0V/5.8V/6.3V	Other/Stop, FF Key /FWD Key
5	0V/5.8V/6.3V	Other/Stop, REW Key /REV Key
6	0V/5.8V	Other/FF Key, REW Key
7	6.2V	
8	0V/5.8V/6.3V	Other/Sync Key /REC Key
9	0V/5.8V/6.3V	Other/Sync Key /Pause Key
10		
11	3.2V/0V	Other/A With Tape
12	0V/5.2V/5.7V	
13		 5.2V 100ms 100μs
14	0V/5.5V	Other/Sync REC
15	0V/6.2V	Other/A Accidental REC Protect Tab removed
16	0V/6.2V	Other/B Accidental REC Protect Tab removed
17	5.5V/0V	Other/REC Play
18	0V/5.7V	Other/B Play
19	0V/5.7V	Other/B Play
20	0V/5.6V	Other/Pause(Mute)
21	0V/5.5V	Other/REC, REC Pause
22	0V/5.6V	Other/B Play ASO Stop(200ms)
23	0V/5.6V	Other/B Play(60ms) B REC(60ms)
24	0V/5.6V	FF, REW, Stop/Other
25	0V/5.6V	Other/Pause
26	0V/5.4V	Other/REV Play, REV REC, REW, RVW
27	0V/5.4V	Other/FWD Play, FWD REC, FF
28	6.3V	

Q848,849

		CONDITION
1	2.9V	
2	0V	
3	0V/5.4V	Other/FWD Play, FF, CUE
4	0V/5.4V	Other/REV Play, REW, RVW
5	0V/5.6V	Q848 Other/Stop(200ms) Q849 Other/Pause Stop (200ms)
6	0V/5.6V	FF, REW, Stop/Other
7	11.8V/0.8V	Other/A Play
8	11.8V/9.3V	
9	11.8V/0.7V	Stop/Other
10	0V	
11	0V/5.6V	Q848 Other/A Play(60ms) Q849 Other/B Play, REC (60ms)
12	0.1V/10.9V	Other/REV Play, REW, RVW
13		 0.7V 5mV 10mV
14	0.1V/10.9V	Other/FWD Play, FF, CUE
15	0V	
16	6.6V	
17	11.8V	
18	3.8V	
19	0V	
20		 5.2V 100ms 100μs
21		 3.9V 150mV 100μs
22	0V	
23	0V	
24	0V	

Q851

1	8.6V
2	0V
3	0V
4	0V
5	-8.6V
6	0V
7	0V
8	0V
9	8.6V

Q501,502

1	0V
2	0V
3	26.0V
4	0V/6.0V
5	0V
6	-23.0V
7	0V
8	0V
9	0V
10	-26.0V

No.4 PIN
1～2sec after

Q351

1	2.0V
2	0.65V
3	0.03V
4	0V
5	0.68V
6	3.4V
7	8.6V

Q601,602 NOR./CrO2, Metal

E	0V
C	0V
B	0V/0.6V

Q609,610 Other/B REC, A Play

E	0V
C	0V
B	0V/0.6V

Q611,612 NOR./CrO2, Metal

E	0V
C	0V
B	0V/0.6V

Q613,614

E	3.43V
C	8.6V
B	4.0V

Q615,616 Other/REC Play

E	0V
C	0V
B	0.6V/0V

Q617,618 NOR./CrO2, Metal

E	0V
C	0V
B	0V/0.6V

Q619,620 Other/REC, REC Pause

E	0V
C	0V
B	0.5V/4.0V

Q621,622 Other/A Play, B Play

E	0V
C	0V
B	0.6V/0V

Q623,624 Stop, Play/REC

S	0V
G	-8.3V/0V
D	0V

Q801 Other/CD Play

E	8.3V
C	0V/8.3V
B	8.3V/7.6V

Q802 Other/A Play

E	8.3V
C	0V/8.3V
B	8.3V/7.6V

Q803 Other/B Play

E	8.3V
C	0V/8.3V
B	8.3V/7.6V

Q804 Other/A Play

E	0V
C	8.3V/0V
B	0V/0.6V

Q805 Other/B Play

E	0V
C	8.3V/0V
B	0V/0.6V

Q806 Other/CD Play

E	0V
C	8.3V/0V
B	0V/CD

Q811 Other/CD Sync REC

E	0V
C	0V/CD
B	8.3V/0V

Q812 Other/Pause

E	0V
C	0V
B	0V/0.6V

Q813 Other/Syncro, REC Pause

E	0V
C	CD/0V
B	0V/0.6V

Q814 Other/B With out cassette

E	0V
C	3.2V/0V
B	0V/0.6V

Q817,819 FWD/REV

E	11.7V
C	0V/11.6V
B	11.2V/11.0V

Q818,823 Stop/Other

E	11.7V
C	0V/11.6V
B	11.7V/0.9V

Q821 Other/REC, REC Pause

E	0V
C	0V
B	0V/0.6V

Q826 Other/REC Play

E	5.6V/0V
C	5.5V/0V
B	4.9V/0V

Q832 Other/REC, REC Pause

E	6.1V/0V
C	6.1V/0V
B	5.5V/-8.7V

Q833 Other/REC, REC Pause

E	0V/4.8V
C	0V/4.2V
B	-8.7V/4.8V

Q834 Other/REC, REC Pause/Dubing

E	1.6V/5.5V/5.6V
C	0V/5.5V/0V
B	0.9V/4.9V/5.6V

Q835 Other/REC, REC Pause/Dubing

E	0V
C	0V/5.5V/0V
B	0.6V/0V/0V

Q837 Other/A Play/B Play

E	0V
C	0V/0V/4.8V
B	0V/0.6V/0V

Q838 Other/A Play, B Play

E	4.4V/0V
C	4.4V/0V
B	3.7V/0V

Q839 Other/A With out cassette

E	0V
C	3.2V/0V
B	0V/0.6V

Q852 Other/REC, REC Pause

E	0V/5.5V
C	0V/5.5V
B	0V/4.9V

Q853,854

E	0V
C	2.4V
B	0.6V

Q856 Other/A With out cassette

E	0V
C	6.2V/0V
B	0V/0.6V

Q901

E	-8.7V
C	-26.0V
B	-9.3V

Q902

E	12.0V
C	19.0V
B	12.7V

Q903

E	8.6V
C	12.1V
B	9.3V

Q905

E	7.1V
C	0V
B	12.0V

Q503 In 2sec/2sec after

E	0V
C	0V/6.0V
B	0.6V/0V

16-1. EXPLODED VIEW CABINET (1)

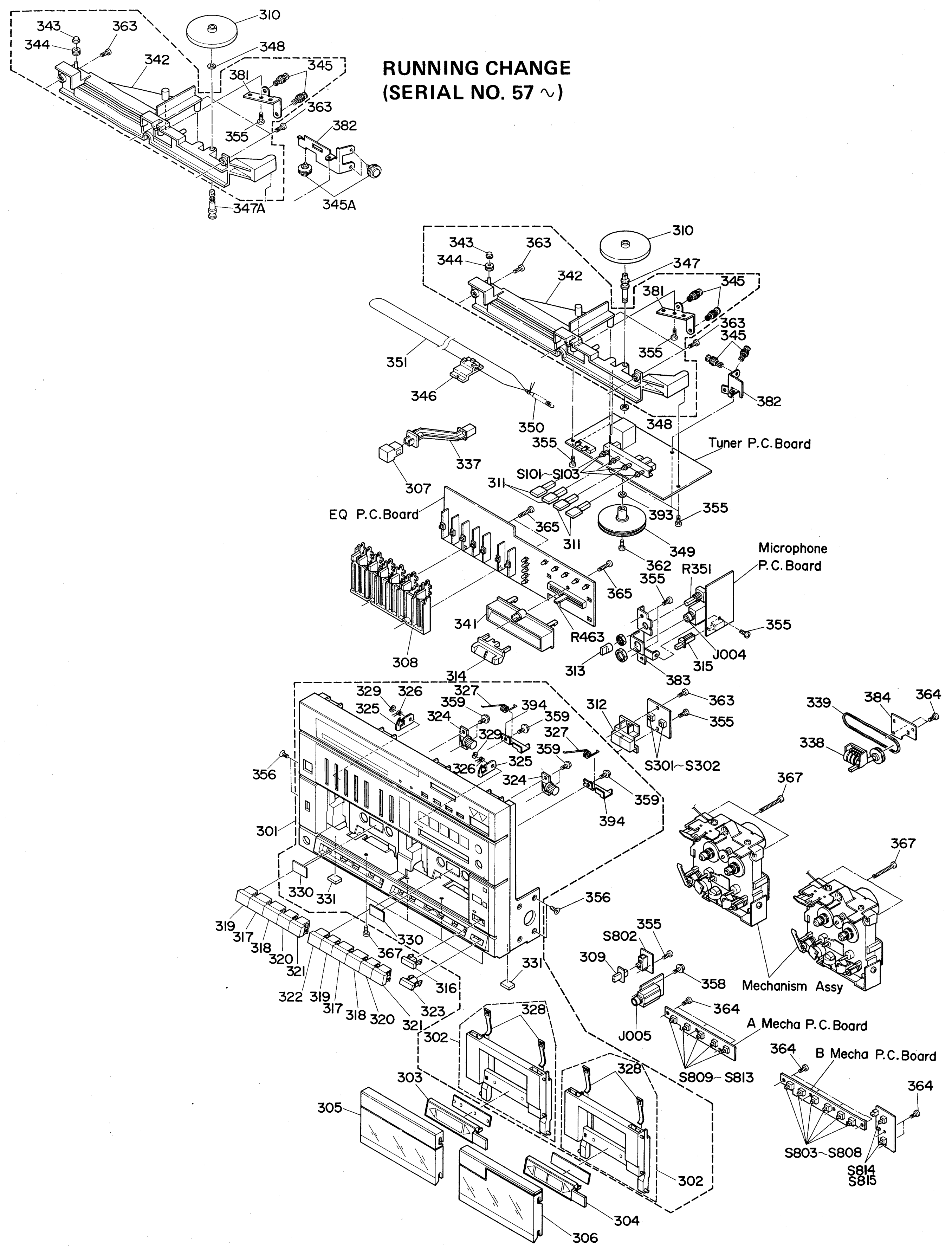


Figure 35 **NOTE:** Parts excluded in the parts list are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

16-2. EXPLODED VIEW CABINET (2)

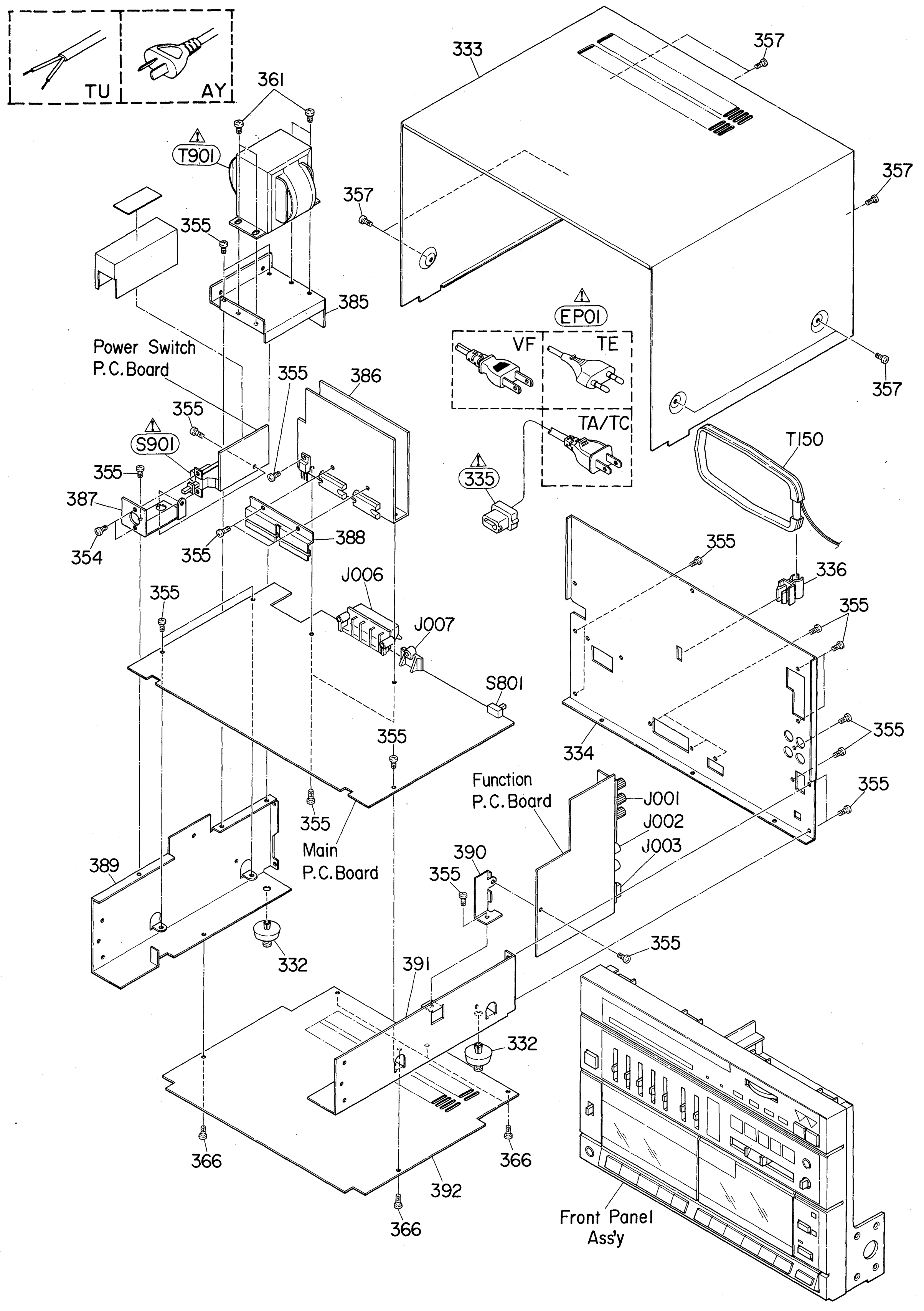


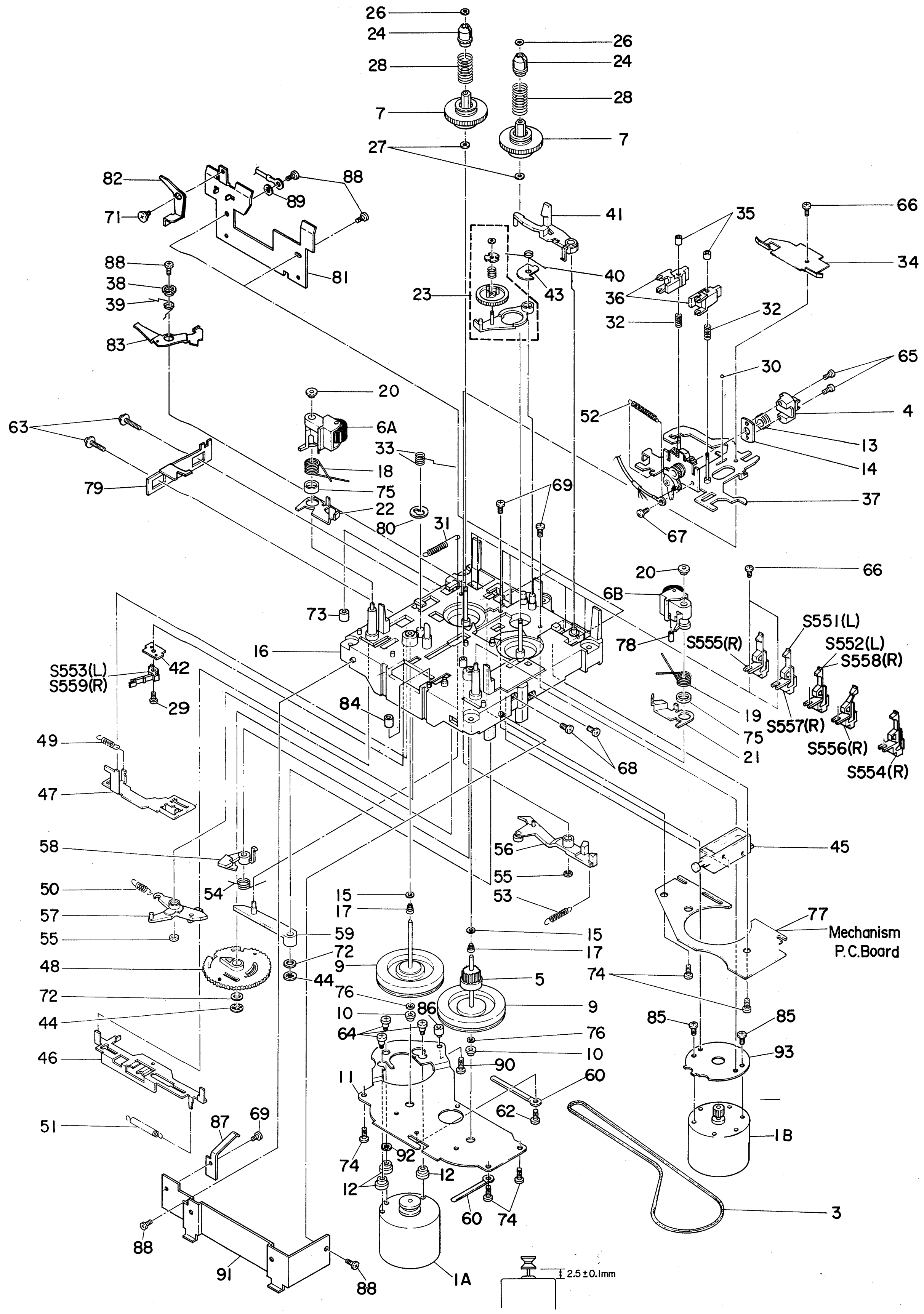
Figure 36 **NOTE:** Parts excluded in the parts list are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

17. CABINET PARTS LIST

CAUTION:
The ⚠ mark, the symbol No. circled with oval in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

Symbol No.	Part No.	Description
301	20017294	Front Panel Ass'y (TE, TD, TU, AY, ME)
301	20017300	Front Panel Ass'y (VF)
302	25872155	Cassette Holder Ass'y
303	25885043	LED Grill Ass'y (A Mechanism)
304	25885044	LED Grill Ass'y (B Mechanism)
305	25872178	Cassette Cover (A Mechanism)
306	25872179	Cassette Cover (B Mechanism)
307	22827046	Knob, Power
308	22749354	Knob Ass'y
309	25837736	Knob, Timer
310	25886536	Knob, Tuning
311	25886473	Knob, FM Mode/MW/FM/ (LW, SW)
312	25886573	Knob, Tuner/AUX-CD
313	25886475	Knob, Microphone
314	25886633	Knob, Volume
315	25886477	Knob, Dolby
316	25886476	Knob, Syncro
317	22827050	Knob, Ass'y, Play L
318	22827049	Knob, Ass'y, Play R
319	22827052	Knob, Ass'y, FF
320	22827053	Knob, Ass'y, FF
321	22827051	Knob, Stop
322	22827054	Knob, REC
323	25886491	Knob, REC Mute/Pause
324	25883246	Damper
325	25756435	Push Cam
326	25775291	Spring, Push Cam
327	25775290	Spring, Eject
328	25779391	Spring, Cassette Holder
329	22703119	E Ring, ϕ2.5
330	25808372	Reflector
331	22758393	Cushion, Foot
332	22828107	Foot
333	20015442	Top Cover
334	20015457	Jack Plate (TE)
334	20015458	Jack Plate (TU, AY)
334	20015463	Jack Plate (TD)
334	20015464	Jack Plate (ME)
334	20015462	Jack Plate (VF)
⚠ 335	25844322	Cord Bush
336	22757125	Antenna Holder
337	25830299	Knob Shaft
338	25873304	Tape Counter
339	25755551	Counter Belt
341	20033230	Decoration Plate, Volume
342	22825422	Tuner Frame Ass'y
343	25783226	Bushing
344	22742270	Pulley
345	22742218	Pulley Ass'y
345A	22742217	Pulley Ass'y
346	22741479	Pointer
347	22743351	Tuning Shaft
347A	22743377	Tuning Shaft
348	22743307	Drum Shaft
349	22742322	Dial Drum
350	25776387	Spring, Drum
353	22707929	Screw, ϕ2.6 x 10mm, BID Tapping
354	22707445	Screw, ϕ3 x 6mm, BID
355	22707842	Screw, ϕ3 x 8mm, BID Tapping
356	22707909	Screw, ϕ3 x 8mm, FLT
357	22707885	Screw, ϕ3 x 8mm, BID Tapping, BLK
358	22708048	Screw, ϕ3 x 10mm, TPAN
359	22707798	Screw, ϕ3 x 10mm, TPAN
360	22707865	Screw, ϕ3 x 20mm, BID Tapping
361	22707185	Screw, ϕ4 x 8mm, FTBID
362	22707473	Screw, ϕ2.6 x 6mm, BID
363	22707826	Screw, ϕ3 x 10mm, BID Tapping
364	22707979	Screw, ϕ2.6 x 8mm, BID Tapping
365	22707910	Screw, ϕ3 x 6mm, BID Tapping
366	22707114	Screw, ϕ3 x 8mm, BID, RED
367	22707843	Screw, ϕ3 x 16mm, BID Tapping, RED

18. EXPLODED VIEW MECHANISM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6A
33
18
75
22
80
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69
52
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14
37
63
79
67
20
66
73
16
6B
78
S555(R)
S551(L)
S552(L)
S558(R)
S553(L)
S559(R)
42
29
84
19
75
21
S557(R)
S556(R)
S554(R)
68
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47
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72
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76
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64
86
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17
74
5
9
76
10
90
60
77
Mechanism
P.C.Board
85
85
93
46
11
62
1B
51
87
69
92
12
74
12
60
74
3
88
91
88
1A
2.5±0.1mm

Figure 37 **NOTE:** Parts excluded in the parts list are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

19. MECHANISM PARTS LIST

Symbol No.	Part No.	Description
1A	25791837	Main Motor Ass'y
1B	25791902	Reel Motor Ass'y
3	25759031	Drive Belt
4A	22217482	Playback Head, HRPT-482 (A Mechanism)
4B	22217449	REC. Playback/Erase Head HRPET-449 (B Mechanism)
5	25756422	Gear, Flywheel
6A	25797022	Pressure Roller Ass'y, L
6B	25717600	Pressure Roller Ass'y, R
7	25754483	Reel Drum, A
9	25797048	Flywheel Ass'y
10	25725456	Holder
12	25761238	Cushion, Motor
13	25761450	Cushion
14	25761481	Cushion, Head
15	25764486	Washer
16	25791780	Main Chassis Ass'y
17	25777424	Spring
18	25778190	Spring, Pressure Roller L
19	25778198	Spring, Pressure Roller R
20	25783226	Bushing
23	25756486	Center Gear Kit
24	25754436	Reel Collar
26	25766050	Washer, ϕ1.6
27	25766223	Washer
28	25777418	Spring
29	22708423	Screw, ϕ2 x 6mm, BID Tapping
30	25757132	Steel Ball, ϕ1.5
31	25776721	Spring
32	25777404	Spring, Tape Guide
33	25778211	Spring, Play Lever
34	25779427	Spring
35	25783258	Nut, Adjust
36	25783391	Tape Guide
37	25797037	Head Slider Ass'y
38	25753384	Eject Collar
39	25778270	Spring, Eject
40	25778199	Spring
41	25784206	Lever
42	25733542	Spacer
44	20798033	Ring
45	22147282	Solenoid Coil
48	25756454	Cam Gear Ass'y
49	25776769	Spring, MQS
50	25776860	Spring, Reverse Lever
51	25776772	Spring, Reverse
52	25776773	Spring, Shift
53	25776793	Spring, Cam Lock
54	25778192	Spring, Play Lock
55	25783239	Bushing
56	25791835	Cam Lock Lever Ass'y
57	25784192	Lever, Reverse
58	25784208	Lever, Play Lock
59	25784209	Lever, Play
62	22707350	Screw, ϕ2.6 x 5mm, BID
63	22707825	Screw, ϕ2.6 x 6mm, PAN
64	22707429	Screw, ϕ2.6 x 1.8 x 4.9mm
65	22702173	Screw, ϕ1.4 x 6mm, PAN
66	22708040	Screw, ϕ2 x 5mm, BID
67	22707278	Screw, ϕ2 x 3mm, BID
68	22707475	Screw, ϕ2.6 x 4mm, BID
69	22701285	Screw, ϕ2.6 x 6mm, PAN
70	22707366	Screw, ϕ2.6 x 6mm, DTBID
71	22701472	Screw, ϕ2.6 x 13mm, FLT
72	22703269	Washer, ϕ3
73	25761459	Cushion
74	22707301	Screw, ϕ2.6 x 8mm, BID
75	25726762	Spacer
76	25766043	Washer, ϕ2.5
78	25726665	Spacer
80	25726753	Spacer
84	25761535	Cushion, Head
85	22708382	Screw, ϕ2.6 x 3mm, PAN
86	25726767	Spacer
87	25779532	Spring
88	22707913	Screw, ϕ2.6 x 6mm, BID Tapping
90	22707929	Screw, ϕ2.6 x 10mm, BID Tapping

20. PARTS LIST

CAUTION:
The ⚠ mark, the symbol No. circled with oval in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

Symbol No.	Part No.	Description
TRANSISTORS IC'S & DIODES		
Q001	B0325502	IC, TA7358AP
Q101	B0358080	IC, TA7758P
Q151	A6042640	Transistor, 2SK161-GR
Q201	B0325355	IC, TA7343AP
Q202	A6534060	Transistor, 2SA1015-GR-GR/BL
Q203	A6317460	Transistor, 2SC1815 NEW-GR-GR/BL
Q301	B0350510	IC, TA75558S
Q302	B0411520	IC, TC9152P
Q303, 304	A6342210	Transistor, 2SC2878-B
Q305	A6534060	Transistor, 2SA1015-GR-GR/BL
Q306	B0350510	IC, TA75558S
Q307	A6317460	Transistor, 2SC1815 NEW-GR-GR/BL
Q308	A6534060	Transistor, 2SA1015-GR-GR/BL
Q351	B0311000	IC, TA7120P
Q401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414	A6317460	Transistor, 2SC1815 NEW-GR-GR/BL
Q415	B0356540	IC, TA7654P
Q416	A6534060	Transistor, 2SA1015-GR-GR/BL
Q417	A6317460	Transistor, 2SC1815 NEW-GR-GR/BL
Q501, 502	22117208	IC, µPC1188H
Q503	A6317460	Transistor, 2SC1815 NEW-GR-GR/BL
Q601, 602	A6317460	Transistor, 2SC1815 NEW-GR-GR/BL
Q603, 604	A6044630	Transistor, 2SK246-GR-Y/GR
Q605, 606	A6040910	Transistor, 2SJ103-GR-Y/GR
Q607, 608	A6044630	Transistor, 2SK246-GR-Y/GR
Q609, 610	A6342200	Transistor, 2SC2878-A
Q611, 612, 613, 614	A6317460	Transistor, 2SC1815 NEW-GR-GR/BL
Q615, 616	A6321240	Transistor, 2SC2120-Y
Q617, 618	A6317460	Transistor, 2SC1815 NEW-GR-GR/BL
Q619, 620	A6534060	Transistor, 2SA1015-GR-GR/BL
Q621, 622	A6342200	Transistor, 2SC2878-A
Q623, 624	A6044630	Transistor, 2SK246-GR-Y/GR
Q625, 626	A6317460	Transistor, 2SC1815 NEW-GR-GR/BL
Q801, 802, 803	A6534060	Transistor, 2SA1015-GR-GR/BL
Q804, 805, 806	A6317460	Transistor, 2SC1815 NEW-GR-GR/BL
Q811, 812, 813, 814, 815, 816	A6317460	Transistor, 2SC1815 NEW-GR-GR/BL
Q817	A6534060	Transistor, 2SA1015-GR-GR/BL
Q818	A6509140	Transistor, 2SA562TM-Y
Q819	A6534060	Transistor, 2SA1015-GR-GR/BL
Q821	A6317460	Transistor, 2SC1815 NEW-GR-GR/BL
Q823	A6509140	Transistor, 2SA562TM-Y
Q824, 825, 826	A6534060	Transistor, 2SA1015-GR-GR/BL
Q827	A6314470	Transistor, 2SC1627A-Y
Q828	A6532940	Transistor, 2SA950-Y
Q829	A6534060	Transistor, 2SA1015-GR-GR/LB
Q830, 831	A6317460	Transistor, 2SC1815 NEW-GR-GR/BL
Q832, 833, 834	A6534060	Transistor, 2SA1015-GR-GR/BL
Q835	A6317460	Transistor, 2SC1815 NEW-GR-GR/BL
Q836	B0325320	IC, TA7341P
Q837	A6317460	Transistor, 2SC1815 GR-GR/BL
Q838	A6534060	Transistor, 2SA1015-GR-GR/BL
Q839	A6317460	Transistor, 2SC1815 NEW-GR-GR/BL

Symbol No.	Part No.	Description
Q840, 841	B0470162	IC, TC4016BP
Q842	22117427	IC, NJM2063AD
Q843	B0350510	IC, TA75558S
Q844	B0470494	IC, TC4049BP
Q845	B0470116	IC, TC4011BP
Q846	22117634	IC, TC9310N-075
Q847	22117635	IC, TC9310N-076
Q848, 849	B0358310	IC, TA7780N
Q850, 851	B0325510	IC, TA7359P
Q852	A6534060	Transistor, 2SA1015-GR/BL
Q853, 854, 856	A6317460	Transistor, 2SC1815 NEW-GR-GR/BL
Q901	A6533240	Transistor, 2SA966-Y-O/Y
Q902	A6868020	Transistor, 2SD1406-Y (VF)
Q902	A6361920	Transistor, 2SC3475-Y (TE, TU, TD, AY, ME)
Q903	A6325540	Transistor, 2SC2236-Y-O/Y
Q904	A6868020	Transistor, 2SD1406-Y
Q905	B0372760	IC, TA78L007AP
D001	A7289000	Diode, 1S2236
D101	A8605677	Diode, TLG113A-F-E/F, LED
D102, 103, 104	A7160570	Diode, 1SS176
D151	A7160570	Diode, 1SS176
D201	A8600607	Diode, TLR113A, LED
D301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315	A7160570	Diode, 1SS176
D316, 317, 318, 319, 320	A8690620	Diode, TLUG153, LED
D321, 322	A7160570	Diode, 1SS176
D401, 402, 403	A8605677	Diode, TLG133A-F-E/F
D404	A8607951	Diode, TLY113A, LED
D405	A8611730	Diode, TLO113A, LED
D601, 602, 603, 604, 605, 606	A7160610	Diode, 1SS178
D607, 608	A7160570	Diode, 1SS176

Symbol No.	Part No.	Description
D801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821	A7160570	Diode, 1SS176
D822	A7978380	Diode, S5277B
D823, 824, 825, 826, 827	A7160570	Diode, 1SS176
D828	A7978380	Diode, S5277B
D829, 830, 831, 832, 833, 834, 835, 836, 837	A7160570	Diode, 1SS176
D839	A8603140	Diode, TLR208, LED
D840, 841	A8606100	Diode, TLG122, LED
D842	A8608400	Diode, TLY122, LED
D843	A8601050	Diode, TLR122, LED
D844	A7160570	Diode, 1SS176
D845	A7978380	Diode, S5277B
D846, 848, 849, 850	A7160570	Diode, 1SS176
D851	A7110017	Diode, 05Z5.6-Y-X/Y, Zener
D852, 853, 854	A7160570	Diode 1SS176
D855, 856	A8606100	Diode, TLG122, LED
D860	A7160570	Diode, 1SS176
⚠ D901	A7682021	Diode, 1D2C1 (T)
⚠ D902	A7682061	Diode, 1D2Z1 (T)
⚠ D903	22115737	Diode, KBP01
D904	A7110262	Diode, 05Z9.1-Y-X/Y, Zener
D905	A7110412	Diode, 05Z12-Z-Z/Y, Zener
D906	A7110262	Diode, 05Z9.1-Y-X/Y, Zener
D907, 908	A7160570	Diode, 1SS176

Symbol No.	Part No.	Description
COILS & TRANSFORMERS		
L002	22294581	FM RF Coil
L003	22295185	FM OSC Coil
L101	22291330	Choke Coil, 2.2μH
L501, 502	22210152	Choke Coil, 4μH
L551, 552	22147282	Solenoid Coil
L601, 602,	22232278	Choke Coil, 8.2mH
T001	22265821	IF Transformer, FM
T101	22265822	IF Transformer, FM
T150	22243002	AM Loop Antenna Coil
T151	22243003	MW Antenna Coil
T152	22243018	LW Antenna Coil (TE, TD, TU, AY, ME)
T152	22282257	SW Antenna Coil (VF)
T153	22245385	MW OSC Coil
T154	22245468	LW OSC Coil (TE, TD, TU, AY, ME)
T154	22285358	SW OSC Coil (VF)
T156	22264837	IF Transformer, AM
T157	22264838	IF Transformer, AM
⚠ T901	22224524	Power Transformer (TE, TD, ME)
⚠ T901	22224523	Power Transformer (TU)
⚠ T901	22224529	Power Transformer (AY)
⚠ T901	22224528	Power Transformer (VF)
ELECTRICAL PARTS		
S101, 102, 103, 104, 105	22196659	Push Switch, FM/MW/Mute/LW, SW/Mode (TE, TD, TU, AY, ME, VF)
S301, 302	22195924	Key Switch, Tuner/AUX-CD
S303	22196441	Push Switch, Dolby
S551, 552	22196538	Leaf Switch, Cr0$_2$/Tape Detect (A Mechanism)
S553	22196643	Leaf Switch, FWD (A Mechanism)
S554, 555	22196538	Leaf Switch, Tape B/A Detect (B Mechanism)
S556	22196539	Leaf Switch, Metal Detect (B Mechanism)

Symbol No.	Part No.	Description
S557, 558	22196538	Leaf Switch Cr0$_2$/Tape Detect (B Mechanism)
S559	22196643	Leaf Switch, FWD (B Mechanism)
S801	22196035	Slide Switch, Beat
S802	22195566	Slide Switch, Timer
S803, 804,	22196649	Key Switch, Stop/FWD
805, 806,	22196649	Key Switch, (B Mechanism)
807, 808	22196649	Key Switch, Reverse/FF REW/REC
S809, 810,	22196649	Key Switch, Stop/FWD
811, 812,	22196649	Key Switch, (A Mechanism)
813	22196649	Key Switch, REW/REC
		Key Switch, Stop/FWD
S814, 815	22196649	Key Switch, Syncro/Pause
⚠ S901	22196516	Push Switch, Power
⚠ S902	22196111	Voltage Selector Switch (VF)
J001	22162552	Antenna Terminal, 4P
J002	22163909	Pin Jack, US4P
J003	22186009	Connector Socket, 5P, Player
J004	22198178	Microphone Jack, 6D
J005	22198036	Headphone Jack, 6D
J006	22162546	Speaker Terminal, 4P
J007	22186009	Connector Socket, 5P, CD Player
Z001	22153354	FM Band-pass Filter (TE, TU, AY, ME, VF)
Z001	22153276	FM Band-pass Filter (TD)
Z101, 102	22153299	Ceramic Filter, 10.7 MS2 (TE, TU, AY, ME, VF)
Z101, 102	22153140	Ceramic Filter, 10.7 MS3G (TD)
Z151	22153083	Ceramic Filter, 460B
Z201	22153193	Low-pass Filter, FTZ (TD)
Z601, 602	22153278	Dolby Filter
Z603, 604	22153229	Bias Trap Coil, 85 kHz
Z801	22215114	Bias OSC Coil
⚠ F901	22144432	Fuse, T630mA, 250V (TE, TD, AY, ME)
⚠ F901	22144512	Fuse, T630mA, 250V (TU)
⚠ F901	22144411	Fuse, 800mA, 250V (VF)
⚠ F902	22144337	Fuse, T1A, 250V (TE, TD, TU, AY, ME)

Symbol No.	Part No.	Description
⚠ F902	22144416	Fuse, 1A, 250V (VF)
⚠ F903	22144405	Fuse, 1.6A, 250V (VF)
⚠ EP01	22176286	Power Cord (TE, TD, ME)
⚠ EP01	22176628	Power Cord (TU)
⚠ EP01	22176588	Power Cord (AY)
⚠ EP01	22176608	Power Cord (VF)
EP02	22165036	Fuse Holder (VF)
EP02	22165047	Fuse Holder (TE, TD, TU, AY, ME)

CAPACITORS

D = ±0.5pF, J = ±5%, K = ±10%, M = ±20%, Z = −20 +80%
ABBREVIATIONS: CD = Ceramic Disk, EL = Electrolytic,
MY = Mylar, PP = Polypropylene,
BL = Barrier Layer

Symbol No.	Part No.	Description
C001	22349102	CD, 1000pF, 50V, K
C002	22361270	CD, 27pF, 50V, J
C003	22361509	CD, 5pF, 50V, D
C003	22361209	CD, 2pF, 50V, D (TD)
C004	22308235	Variable, VC-4-20/335
C007	22360783	CD, 24pF, 50V, J, PH
C008	22361309	CD, 3pF, 50V, D
C009	22361220	CD, 22pF, 50V, J
C010, 011	22342223	CD, 0.022mfd, 50V, Z
C012	22360484	CD, 0.047mfd, 50V, Z
C013	22361100	CD, 10pF, 50V, D
C013	22361220	CD, 22pF, 50V, J (TD)
C014	22361309	CD, 3pF, 50V, D
C016	22361220	CD, 22pF, 50V, J (TD)
C101	22342103	CD, 0.01mfd, 50V, Z
C102	22342223	CD, 0.022mfd, 50V, Z
C103	22349151	CD, 150pF, 50V, K
C104	22488479	EL, 4.7mfd, 50V
C105	22488479	EL, 4.7mfd, 50V
C106	22488109	EL, 1mfd, 50V
C107	22460484	CD, 0.047mfd, 50V, Z
C110	22361560	CD, 56pF, 50V, J (VF)
C153	22361409	CD, 4pF, 50V, D
C154	22309195	Trimmer, Max 15pF
C155	22361180	CD, 18pF, 50V, J
C156	22321051	PP, 390pF, 50V, J
C159	22360919	CD, 24pF, 50V, J, UJ
C160	22321163	PP, 120pF, 50V, J
C160	22321061	PP, 2200pF, 50V, J (VF)
C161	22360184	CD, 56pF, 50V, K, UJ
C162	22309195	Trimmer, Max 15pF
C163	22342103	CD, 0.01mfd, 50V, Z
C164, 165	22342223	CD, 0.022mfd, 50V, Z
C166	22485100	EL, 10mfd, 16V

Symbol No.	Part No.	Description
C167, 168	22342223	CD, 0.022mfd, 50V, Z
C169	22485470	EL, 47mfd, 16V
C170	22342103	CD, 0.01mfd, 50V, Z
C171	22349472	CD, 4700pF, 50V, K
C172	22485220	EL, 22mfd, 16V
C173	22342223	CD, 0.022mfd, 50V, Z
C201, 202	22488109	EL, 1mfd, 50V
C203	22488339	EL, 3.3mfd, 50V
C204	22488109	EL, 1mfd, 50V
C205	22321057	PP, 1000pF, 50V, J
C206	22483101	EL, 100mfd, 10V
C211, 212	22360549	BL, 0.027mfd, 25V, K
C211, 212	22360550	BL, 0.033mfd, 25V, K (TD)
C213, 214	22488109	EL, 1mfd, 50V
C221, 222	22488479	EL, 4.7mfd, 50V
C301, 302	22488479	EL, 4.7mfd, 50V
C303, 304	22349331	CD, 330pF, 50V, K (TD)
C305, 306	22349102	CD, 1000pF, 50V, K
C305, 306	22349561	CD, 560pF, 50V, K (TD)
C307, 308	22360536	BL, 2200pF, 25V, K
C309, 310	22360543	BL, 8200pF, 25V, K
C311, 312	22488479	EL, 4.7mfd, 50V
C313, 314	22485470	EL, 47mfd, 16V
C315, 316	22485100	EL, 10mfd, 16V
C317	22342223	CD, 0.022mfd, 50V, Z
C318	22342223	CD, 0.022mfd, 50V, Z (TD)
C319, 320	22362101	CD, 100pF, 50V, K (TD)
C321, 322	22488478	EL, 0.47mfd, 50V
C323, 324	22488479	EL, 4.7mfd, 50V
C325	22488109	EL, 1mfd, 50V
C326	22488479	EL, 4.7mfd, 50V
C328	22488339	EL, 3.3mfd, 50V
C329	22488109	EL, 1mfd, 50V
C330	22488478	EL, 0.47mfd, 50V
C331, 332	22349331	CD, 330pF, 50V, K (TD)
C351	22488478	EL, 0.47mfd, 50V
C352	22349151	CD, 150pF, 50V, K
C353	22485330	EL, 33mfd, 16V
C354	22349151	CD, 150pF, 50V, K
C355	22483101	EL, 100mfd, 10V
C356	22488109	EL, 1mfd, 50V
C357	22488479	EL, 4.7mfd, 50V
C358	22349471	CD, 470pF, 50V, K
C401, 402	22488479	EL, 4.7mfd, 50V
C403, 404	22485100	EL, 10mfd, 16V
C405, 406,	22488479	EL, 4.7mfd, 50V
C407, 408,	22488479	EL, 4.7mfd, 50V
C409, 410	22488479	EL, 4.7mfd, 50V
C411, 412	22488229	EL, 2.2md,
C413, 414	22360551	BL, 0.039mfd, 25V, K
C415, 416	22480006	EL, 0.33mfd, 50V

Symbol No.	Part No.	Description
C417, 418	22360328	BL, 0.015mfd, 25V, M
C419, 420	22360332	BL, 0.068mfd, 25V, M
C421, 422	22349392	CD, 3900pF, 50V, K
C423, 424	22360328	BL, 0.015mfd, 25V, M
C425, 426	22360533	BL, 1200pF, 25V, K
C427, 428	22360541	BL, 5600pF, 25V, K
C429, 430	22349391	CD, 390pF, 50V, K
C431, 432	22485100	EL, 10mfd, 16V
C433, 434	22488478	EL, 0.47mfd, 50V
C435, 436	22483101	EL, 100mfd, 10V
C437	22488479	EL, 4.7mfd, 50V
C439	22488479	EL, 4.7mfd, 50V
C440, 441,	22342223	CD, 0.022mfd, 50V, Z
C442, 443	22342223	CD, 0.022mfd, 50V, Z
C444	22488109	EL, 1mfd, 50V
C501, 502	22488479	EL, 4.7mfd, 50V
C503, 504	22349221	CD, 220pF, 50V, K (TD)
C505, 506	22349331	CD, 330pF, 50V, K
C507, 508	22485470	EL, 47mfd, 16V
C509, 510	22361270	CD, 27pF, 50V, J
C511, 512	22361270	CD, 27pF, 50V, J
C511, 512	22361470	CD, 47pF, 50V, J (TD)
C513, 514	22371333	MY, 0.033mfd, 50V, J
C515	22342223	CD, 0.022mfd, 50V, Z (TD)
C517, 518	22349472	CD, 4700pF, 50V, K (TD)
C521	22485330	EL, 33mfd, 16V
C522	22432223	CD, 0.022mfd, 50V, Z
C523	22360484	CD, 0.022mfd, 50V, Z (VF)
C524	22487220	EL, 22mfd, 35V
C601, 602	22488109	EL, 1mfd, 50V
C603, 604	22349102	CD, 1000pF, 50V, K
C605, 606	22362101	CD, 100pF, 50V, K
C605, 606	22349471	CD, 470pF, 50V, K (TD)
C607, 608	22485330	EL, 33mfd, 16V
C609, 610	22371123	MY, 0.012mfd, 50V, J
C611, 612	22485100	EL, 10mfd, 16V
C613, 614	22371223	MY, 0.022mfd, 50V, J
C615, 616,	22488479	EL, 4.7mfd, 50V
C617, 618	22488479	EL, 4.7mfd, 50V
C619, 620	22361180	CD, 18pF, 50V, J
C621, 622	22488109	EL, 1mfd, 50V
C623, 624	22349102	CD, 1000pF, 50V, K
C625, 626	22362101	CD, 100pF, 50V, K
C627, 628	22485220	EL, 22mfd, 16V
C629, 630	22371103	MY, 0.01mfd, 50V, J
C631, 632	22485100	EL, 10mfd, 16V
C633, 634	22371223	MY, 0.022mfd, 50V, J
C635, 636	22488109	EL, 1mfd, 50V
C637, 638	22488478	EL, 0.47mfd, 50V
C639, 640	22488479	EL, 4.7mfd, 50V
C641, 642	22349221	CD, 220pF, 50V, K
C643, 644	22485100	EL, 10mfd, 16V
C645, 646	22371682	MY, 6800pF, 50V, J

Symbol No.	Part No.	Description
C647, 648	22371333	MY, 0.033mfd, 50V, J
C649, 650	22371473	MY, 0.047mfd, 50V, J
C651, 652	22480008	EL, 0.68mfd, 50V
C653, 654	22371472	MY, 4700pF, 50V, J
C655, 656	22488339	EL, 3.3mfd, 50V
C657, 658	22488479	EL, 4.7mfd, 50V
C659, 660	22485100	EL, 10mfd, 16V
C661, 662,	22371103	MY, 0.01mfd, 50V, J
C663, 664	22371103	MY, 0.01mfd, 50V, J
C665, 666	22349102	CD, 1000pF, 50V, K
C667, 668	22349151	CD, 150pF, 50V, K
C669, 670,	22488479	EL, 4.7mfd, 50V
C671, 672	22488479	EL, 4.7mfd, 50V
C676	22488339	EL, 3.3mfd, 50V
C677	22342223	CD, 0.022mfd, 50V, Z (TD)
C801	22488109	EL, 1mfd, 50V
C802	22488478	EL, 0.47mfd, 50V
C803	22488109	EL, 1mfd, 50V
C804	22485470	EL, 47mfd, 16V
C805	22485101	EL, 100mfd, 16V
C806	22485100	EL, 10mfd, 16V
C807	22482471	EL, 470mfd, 6.3V
C808	22342473	CD, 0.047mfd, 50V, Z
C809	22485100	EL, 10mfd, 16V
C810	22488109	EL, 1mfd, 50V
C811	22485100	EL, 10mfd, 16V
C812	22488109	EL, 1mfd, 50V
C813	22488339	EL, 3.3mfd, 50V
C814	22342473	CD, 0.047mfd, 50V, Z
C815, 816	22371562	MY, 5600pF, 50V, J
C817	22488109	EL, 1mfd, 50V
C819	22485101	EL, 100mfd, 16V
C820	22485470	EL, 47mfd, 16V
C821	22482471	EL, 470mfd, 6.3V
C822	22488228	EL, 0.22mfd, 50V
C823	22485101	EL, 100mfd, 16V
C824	22372153	MY, 0.015mfd, 50V, K
C825	22372682	MY, 6800pF, 50V, K
C826	22488479	EL, 4.7mfd, 50V
C829	22485330	EL, 33mfd, 16V
C830, 831	22483221	EL, 220mfd, 10V
C832	22372682	MY, 6800pF, 50V, K
C833	22485100	EL, 10mfd, 16V
C834	22349102	CD, 1000pF, 50V, K
C835	22371223	MY, 0.022mfd, 50V, J
C836	22485470	EL, 47mfd, 16V
C837	22488478	EL, 0.47mfd, 50V
C838	22371103	MY, 0.01mfd, 50V, J
C839, 840	22485470	EL, 47mfd, 16V
C841	22485220	EL, 22mfd, 16V
C842	22483221	EL, 220mfd, 10V
C843, 844	22485330	EL, 33mfd, 16V
C845	22321260	PP, 4700pF, 100V, J

Symbol No.	Part No.	Description
C846	22321106	PP, 330pF, 100V, J
C848	22360332	BL, 0.068mfd, 25V, M
C850	22360332	BL, 0.068mfd, 25V, M
C852	22488339	EL, 3.3mfd, 50V
C853	22349472	CD, 4700pF, 50V, K
C854, 855	22349681	CD, 680pF, 50V, K
C856, 857	22360331	BL, 0.047mfd, 25V, M
C860	22342223	CD, 0.022mfd, 50V, K
⚠ C901	22340226	CD, 4700pF, 500V, M (TE, TD, ME, AY)
⚠ C901	22340229	CD, 4700pF, 400V, M (TU)
⚠ C901	22340169	CD, 4700pF, 250V, P (VF)
C902, 903,	22342223	CD, 0.022mfd, 50V, Z
C904	22342223	CD, 0.022mfd, 50V, Z
C905, 906	22440629	EL, 4700mfd, 35V
C907	22486222	EL, 2200mfd, 25V
C908	22487101	EL, 100mfd, 35V
C909, 910,	22486101	EL, 100mfd, 25V
C911, 912,	22486101	EL, 100mfd, 25V
C913	22486101	EL, 100mfd, 25V
C914, 915	22485101	EL 100mfd, 16V
C916	22485330	EL, 33mfd, 16V
C917, 918	22485100	EL, 10mfd, 16V
C919	22485101	EL, 100mfd, 16V

RESISTORS

All resistors are carbon film 1/6W, ±5% unless otherwise noted.

Symbol No.	Part No.	Description
R001	22584101	100 ohm
R002	22584220	22 ohm
R003	22584101	100 ohm
R101	22584102	1K ohm
R102	22584331	330 ohm
R103	22584472	4.7K ohm
R104	22584223	22K ohm
R105, 106	22584333	33K ohm
R107	22584101	100 ohm
R108, 109	22584104	100K ohm
R110	22584471	470 ohm
R111	22584103	10K ohm
R151, 152	22584331	330 ohm
R153, 154	22584473	47K ohm
R154	22584470	47 ohm (VF)
R201	22555101	100 ohm, 1/4W
R202	22584154	150K ohm
R203	22584102	1K ohm

Symbol No.	Part No.	Description
R204	22584103	10K ohm
R205	22658798	10K ohm, B, Semi-fixed Variable
R206	22584471	470 ohm
R221, 212	22584222	2.2K ohm
R213, 214	22584103	10K ohm
R215, 216	22584473	47K ohm
R221	22584103	10K ohm
R222	22584472	4.7K ohm
R223	22584223	22K ohm
R224	22584153	15K ohm
R226	22584220	22 ohm
R301, 302	22584101	100 ohm
R301, 302	22584102	1K ohm (TD)
R303, 304	22584104	100K ohm
R305, 306	22584333	33K ohm
R307, 308	22584394	390K ohm
R309, 310	22584222	2.2K ohm
R311, 312	22584102	1K ohm
R313, 314	22584104	100K ohm
R315, 316	22584101	100 ohm
R317, 318	22584333	33K ohm
R319, 320	22584103	10K ohm
R321, 322	22584222	2.2K ohm
R323, 324	22584224	220K ohm
R325, 326	22584103	10K ohm
R327, 328	22584224	220K ohm
R329, 330	22584103	10K ohm
R331, 332	22584153	15K ohm
R333, 334	22584332	3.3K ohm
R336	22584103	10K ohm
R337	22584473	47K ohm
R338, 339	22584103	10K ohm
R340	22584223	22K ohm
R341	22584104	100K ohm
R342, 343	22584103	10K ohm
R344	22584471	470 ohm
R346	22584103	10K ohm
R347	22584221	220 ohm
R348	22584561	560 ohm
R351	22612405	10K ohm, B, Variable Microphone
R353	22584473	47K ohm
R354	22584563	56K ohm
R355	22584472	4.7K ohm
R356	22584122	1.2K ohm
R358, 359	22584102	1K ohm
R401, 402	22584122	1.2K ohm
R403, 404	22584394	390K ohm
R405, 406	22584394	390K ohm

Symbol No.	Part No.	Description
R407, 408	22584472	4.7K ohm
R409, 410	22584472	4.7K ohm
R411, 412	22584224	220K ohm
R413, 414	22584224	220K ohm
R415, 416	22584472	4.7K ohm
R417, 418	22584102	1K ohm
R419	22657318	100K ohm, W, Variable, 63 Hz
R421, 422	22584122	1.2K ohm
R423, 424	22584683	68K ohm
R425, 426	22584682	6.8K ohm
R427	22657318	100K ohm, W, Variable, 250 Hz
R429, 430	22584122	1.2K ohm
R431, 432	22584683	68K ohm
R433, 434	22584682	6.8K ohm
R435	22657318	100K ohm, W, Variable, 1 KHz
R437, 438	22584122	1.2K ohm
R439, 440	22584683	68K ohm
R441, 442	22584682	6.8K ohm
R443	22657318	100K ohm, W, Variable, 4 KHz
R445, 446	22584122	1.2K ohm
R447, 448	22584683	68K ohm
R449, 450	22584682	6.8K ohm
R451	22657318	100K ohm, W, Variable, 12 KHz
R453, 454	22584122	1.2K ohm
R455, 456	22584683	68K ohm
R457, 458	22584682	6.8K ohm
R459, 460	22584223	22K ohm
R461, 462	22584223	22K ohm
R463	22657370	20K ohm, B, Variable, Volume
R464	22657355	250K ohm M, Variable, Balance
R465	22657354	50K ohm, B, Variable, REC Level
R467, 468	22584102	1K ohm
R469, 470	22584102	1K ohm
R471, 472	22584472	4.7K ohm
R473, 474	22584473	47K ohm
R475	22584101	100 ohm
R476, 477	22584103	10K ohm
R478	22584103	10K ohm
R479	22584683	68K ohm
R480	22584104	100K ohm
R481, 482	22584391	390 ohm
R483	22584391	390 ohm
R484, 485	22584561	560 ohm
R486	22584103	10K ohm

Symbol No.	Part No.	Description
R501, 502	22584563	56K ohm
R503, 504	22584391	390 ohm
R505, 506	22584563	56K ohm
R507, 508	22584104	100K ohm
R509, 510	22570250	10 ohm, 1W,Metal Film
R511, 512	22547331	330 ohm, 1/2W
R521	22584154	150K ohm
R522	22584103	10K ohm
R601, 602	22584102	1K ohm
R603, 604	22584104	100K ohm
R605, 606	22584274	270K ohm
R607, 608	22584123	12K ohm
R609, 610	22584222	2.2K ohm
R611, 612	22584332	3.3K ohm
R613, 614	22584223	22K ohm
R615, 616	22584223	22K ohm
R617, 618	22584223	22K ohm
R619, 620	22584224	220K ohm
R621, 622	22584225	2.2M ohm
R623, 624	22555106	10M ohm, 1/4W
R625, 626	22584224	220K ohm
R627, 628	22584224	220K ohm
R629, 630	22584102	1K ohm
R631, 632	22584104	100K ohm
R633, 634	22584274	270K ohm
R635, 363	22584123	12K ohm
R637, 638	22584222	2.2K ohm
R639, 640	22584332	3.3K ohm
R641, 642	22584223	22K ohm
R643, 644	22584473	47K ohm
R645, 646	22584224	220K ohm
R647, 648	22584224	220K ohm
R649, 650	22584224	220K ohm
R651, 652	22584224	220K ohm
R653, 654	22584224	220K ohm
R655, 656	22584224	220K ohm
R657, 658	22584104	100K ohm
R659, 660	22584104	100K ohm
R661, 662	22584332	3.3K ohm
R663, 664	22584332	3.3K ohm
R665, 666	22584682	6.8K ohm
R667, 668	22584394	390K ohm
R669, 670	22584332	3.3K ohm
R671, 672	22584473	47K ohm
R675, 676	22658798	10K ohm, B, Semi-fixed Variable
R677, 678	22584272	2.7K ohm
R679, 680	22584104	100K ohm
R681, 682	22584183	18K ohm
R683, 684	22584332	3.3K ohm
R685, 686	22584221	220 ohm

Symbol No.	Part No.	Description
R687, 688	22584822	8.2K ohm
R689, 690	22584103	10K ohm
R693, 694	22584223	22K ohm
R695, 696	22584223	22K ohm
R697, 698	22584562	5.6K ohm
R699, 700	22658803	200K ohm, B, Semi-fixed Variable
R701, 702	22658793	500 ohm, B, Semi-fixed Variable
R703, 704	22658793	500 ohm, B, Semi-fixed Variable
R705, 706	22584224	220K ohm
R709, 710	22584224	220K ohm
R711, 712	22584222	2.2K ohm
R713, 714	22584222	2.2K ohm
R715, 716	22584224	220K ohm
R751	22584223	22K ohm
R752	22584103	10K ohm
R753	22584104	100K ohm
R754	22584473	47K ohm
R755	22584224	220K ohm
R756	22584473	47K ohm
R757	22584102	1K ohm
R758	22584101	100 ohm
R759	22584332	3.3K ohm
R760	22584473	47K ohm
R761	22584104	100K ohm
R762	22584471	470 ohm
R763	22584101	100 ohm
R764	22584104	100K ohm
R765	22584223	22K ohm
R766	22584473	47K ohm
R767	22584103	10K ohm
R768	22584102	1K ohm
R769	22584103	10K ohm
R770	22584472	4.7K ohm
R771	22584102	1K ohm
R772	22584103	10K ohm
R773	22584472	4.7K ohm
R774	22584333	33K ohm
R775	22584105	1M ohm
R776	22584102	1K ohm
R777	22584473	47K ohm
R778	22584224	220K ohm
R779	22584104	100K ohm
R780	22584103	10K ohm
R781	22584561	560 ohm
R783	22584104	100K ohm
R784	22584224	220K ohm
R785	22584152	1.5K ohm
R786	22584473	47K ohm
R787	22584152	1.5K ohm

Symbol No.	Part No.	Description
R788	22584223	22K ohm
R789	22584103	10K ohm
R790	22584152	1.5K ohm
R791	22584223	22K ohm
R792	22584103	10K ohm
R793, 794	22584105	1M ohm
R795	22584471	470 ohm
R796	22584103	10K ohm
R797	22584104	100K ohm
R798	22555104	100K ohm, 1/4W
R801	22584101	100 ohm
R802	22584473	47K ohm
R803	22584332	3.3K ohm
R804	22584473	47K ohm
R805	22584104	100K ohm
R806	22584473	47K ohm
R807	22584104	100K ohm
R808	22584103	10K ohm
R809	22584473	47K ohm
R816	22584104	100K ohm
R817	22584473	47K ohm
R818	22584103	10K ohm
R819	22584473	47K ohm
R820	22584472	4.7K ohm
R821	22584563	56K ohm
R822, 823	22584102	1K ohm
R824	22584473	47K ohm
R825	22584472	4.7K ohm
R826	22584473	47K ohm
R827	22584472	4.7K ohm
R828, 829	22584223	22K ohm
R830	22584333	33K ohm
R831	22584104	100K ohm
R832	22584152	1.5K ohm
R833	22584122	1.2K ohm
R834	22584222	2.2K ohm
R835, 836	22584103	10K ohm
R837	22584102	1K ohm
R838	22584122	1.2K ohm
R839	22584152	1.5K ohm
R840	22854103	10K ohm
R841	22584473	47K ohm
R842	22584223	22K ohm
R843	22584222	2.2K ohm
R845, 846	22584103	10K ohm
R849	22570264	150 ohm, 1W, Metal Oxide Film
R850, 851	22584222	2.2K ohm
R852	22584473	47K ohm
R853	22584103	10K ohm
R854	22584473	47K ohm

Symbol No.	Part No.	Description
R855	22584472	4.7K ohm
R856, 867	22584223	22K ohm
R858	22584103	10K ohm
R859	22584473	47K ohm
R860	22570264	150 ohm, 1W, Metal Oxide Film
R861	22584222	2.2K ohm
R863	22584103	10K ohm
R864	22584473	47K ohm
R865	22584473	47K ohm
R867	22584104	100K ohm
R868	22584103	10K ohm
R869	22584333	33K ohm
R870, 871	22584473	47K ohm
R872, 873	22584223	22K ohm
R874, 875	22584122	1.2K ohm
R876, 877	22584152	1.5K ohm
R878	22584471	470 ohm
R879	22584681	680 ohm
R880	22584473	47K ohm
R883	22584103	10K ohm
R884	22584684	680K ohm
R885	22584102	1K ohm
△ R886	22500463	4.7 ohm, 1/4W, Fusible
R886	22584479	4.7 ohm (VF)
R887	22584680	68 ohm
R888	22584332	3.3K ohm
R889	22584562	5.6K ohm
R890	22547181	180 ohm, 1/2W
R891	22547221	220 ohm, 1/2W
R892, 893	22584473	47K ohm
R894	22584473	47K ohm
R895	22584332	3.3K ohm
R896	22584103	10K ohm
R897, 898	22584102	1K ohm
R899	22584222	2.2K ohm
△ R903	22500167	2.2 ohm, 1/4W, Fusible
R904, 905	22584561	560 ohm
R907	22584391	390 ohm
R908	22584271	270 ohm
R909	22584121	120 ohm
R911, 912	22584561	560 ohm
R913	22584560	56 ohm
R914	22584271	270 ohm
R915	22584221	220 ohm
R916	22584332	3.3K ohm
R917	22584225	2.2M ohm

Symbol No.	Part No.	Description
ACCESSORIES		
AC01	22904655	Owner's Manual (TE, ME)
AC01	22904706	Owner's Manual (TD)
AC01	22904656	Owner's Manual (TU, AY)
AC01	22904707	Owner's Manual (VF)
AC02	22124502	Antenna Feeder
AC03	20971653	Adapter, 45
AC04	22197005	Connector Cord, Player
AC05	22957480	FTZ Sheet (TD)
AC06	22164300	AC Adaptor Plug (VF)

TOSHIBA CORPORATION
1-1, SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105, JAPAN